# Part 9 Space Mission Directions

- 1. Navigate out to the Google Classroom for this class.
- 2. Locate the Space Mission Part 9 assignment.
- 3. We are now ready to start adding code to our file. Using your Windows button menu, find and launch your IDLE program.



IDLE is the integrated development environment associated with Python. It is made up of a code editor where you type your code along with other helpful tools that allow you to write, save, and test run programs.

IDLE is designed to recognize Python code, compile Python code, and provide basic debugging tips to programmers if there are problems with their code.

4. Your IDLE window should look something like this once it has launched.:



On Startup, IDLE will display the Python Shell, which can be used to give commands to the computer's operating system. Since we are viewing the shell through IDLE and not the actual command prompt window, the commands that we type into the Shell will not communicate directly with our operating system. However, you can type similar commands in the Python Shell directly from the Python program (not through IDLE) and, if you have permission to access the operating system's commands, you can communicate with the computer's operating system that way.

In IDLE, the shell is mainly used as a launching screen for other activities that we will do, like writing code for our game or debugging a file.

5. Go to File > Open and then browse in the Starting Files folder I gave you to find the escape python file that we have been working on.

🗹 📴 escape	11/22/2021 8:34 AM	Python File	0 KB

- 6. Your escape.py file will open up.
- 7. Scroll and click at the end of Line 479.

468	<pre>for prop_number, prop_info in props.items():</pre>
469	prop_room = prop_info[0]
470	<pre>prop_y = prop_info[1]</pre>
471	<pre>prop_x = prop_info[2]</pre>
472	<pre>if (prop_room == current_room and</pre>
473	<pre>room_map[prop_y][prop_x] in [0, 39, 2]):</pre>
474	<pre>room_map[prop_y][prop_x] = prop_number</pre>
475	<pre>image_here = objects[prop_number][0]</pre>
476	<pre>image_width = image_here.get_width()</pre>
477	<pre>image_width_in_tiles = int(image_width / TILE_SIZE)</pre>
478	<pre>for tile_number in range(1, image_width_in_tiles):</pre>
479	<pre>room_map[prop_y][prop_x + tile_number] = 255</pre>
480	
481	
482	*****
483	## GAME LOOP ##
484	******

9. Type the code you see on Lines 481 – 483 of the screenshot below. Ensure your indentation and punctuation matches what is shown in the screenshot.

```
468
        for prop number, prop info in props.items():
469
           prop room = prop info[0]
470
           prop_y = prop_info[1]
471
           prop x = prop_info[2]
472
            if (prop room == current room and
473
                room map[prop y][prop x] in [0, 39, 2]):
474
                    room_map[prop_y][prop_x] = prop_number
475
                    image here = objects[prop number][0]
476
                    image width = image here.get width()
477
                    image width in tiles = int(image width / TILE SIZE)
478
                    for tile number in range(1, image width in tiles):
479
                        room_map[prop_y][prop_x + tile_number] = 255
480
481
           hazard map = [] # empty list
482
           for y in range(room height):
               hazard map.append( [0] * room_width )
483
484
485
486 #################
487 ## GAME LOOP ##
```

Line 481 creates a new empty list called hazard\_map.

Lines 482 – 483 fill the harzard\_map list with rows of 0s that are as wide as the room width.

10. Ensure that your "GAME LOOP" comment runs on Lines 486 – 488 of your code, as shown in the screenshot below.

```
468
        for prop number, prop info in props.items():
469
           prop room = prop info[0]
470
           prop_y = prop_info[1]
471
           prop x = prop info[2]
472
            if (prop_room == current_room and
473
                room_map[prop_y][prop_x] in [0, 39, 2]):
474
                    room map[prop y][prop x] = prop number
475
                    image here = objects[prop number][0]
                    image width = image here.get width()
476
477
                    image width in tiles = int(image width / TILE SIZE)
478
                    for tile number in range(1, image width in tiles):
479
                        room map[prop y][prop x + tile number] = 255
480
481
           hazard map = [] # empty list
482
           for y in range(room height):
483
               hazard map.append( [0] * room width )
484
485
486 #################
487 ## GAME LOOP ##
```

11. Scroll and click at the end of Line 495.

```
486 ################
487 ## GAME LOOP ##
489
490 def start room():
491 global airlock door frame
      show text("You are here: " + room name, 0)
492
493
       if current room == 26: # Room with self-shutting airlock door
494
          airlock door frame = 0
495
           clock.schedule interval(door in room 26, 0.05)
496
497 def game loop():
498 global player x, player y, current room
499
      global from_player_x, from_player_y
500
      global player image, player image shadow
      global selected_item, item_carrying, energy
501
502
      global player offset x, player offset y
503
       global player frame, player direction
```

# 12. Press ENTER.

13. Type the code you see on Line 496 of the screenshot below to call the hazard\_start() method.

```
486 #################
487 ## GAME LOOP ##
489
490 def start room():
    global airlock door frame
491
492
      show text("You are here: " + room name, 0)
493
      if current room == 26: # Room with self-shutting airlock door
494
           airlock door frame = 0
495
           clock.schedule interval(door in room 26, 0.05)
496
     hazard start()
497
498 def game loop():
499 global player_x, player_y, current_room
500
      global from player x, from player y
```

# 14. Scroll and click at the end of Line 550.

```
548 # check for exiting the room
549
       if player x == room width: # through door on RIGHT
550
           #clock.unschedule(hazard move)
551
           current room += 1
552
           generate map()
553
           player x = 0 # enter at left
           player y = int(room height / 2) # enter at door
554
555
           player frame = 0
556
           start_room()
557
           return
558
559
      if player x == -1: # through door on LEFT
560
           #clock.unschedule(hazard move)
561
           current room -= 1
562
           generate map()
563
           player x = room width - 1 # enter at right
564
           player y = int(room height / 2) # enter at door
565
           player frame = 0
566
           start room()
567
           return
568
569
       if player y == room height: # through door at BOTTOM
570
           #clock.unschedule(hazard move)
571
           current room += MAP WIDTH
572
           generate_map()
573
           player y = 0 # enter at top
574
           player_x = int(room_width / 2) # enter at door
575
           player frame = 0
576
           start_room()
577
           return
578
579
      if player_y == -1: # through door at TOP
580
           #clock.unschedule(hazard move)
581
           current room -= MAP WIDTH
582
           generate map()
583
           player_y = room_height - 1 # enter at bottom
584
           player_x = int(room_width / 2) # enter at door
585
           player frame = 0
586
           start room()
587
           return
```

15. Uncomment the clock.unschedule(hazard\_move) commands that you see on Lines 550, 560, 570, and 580 of your code by deleting the "#" symbol at the beginning of each line. The screenshot below shows the uncommented code that you should have after you have completed this step.

```
548 # check for exiting the room
549
       if player x == room width: # through door on RIGHT
550
           clock.unschedule(hazard move)
551
           current room += 1
552
           generate map()
           player x = 0 # enter at left
553
554
           player y = int(room height / 2) # enter at door
555
          player frame = 0
556
           start room()
557
           return
558
559
      if player x == -1: # through door on LEFT
560
          clock.unschedule(hazard move)
561
           current room -= 1
562
          generate map()
563
          player x = room width - 1 # enter at right
564
          player y = int(room height / 2) # enter at door
565
          player frame = 0
566
          start room()
567
          return
568
569
       if player y == room height: # through door at BOTTOM
570
          clock.unschedule(hazard move)
571
           current room += MAP WIDTH
572
           generate map()
          player y = 0 # enter at top
573
574
           player x = int(room width / 2) # enter at door
           player frame = 0
575
576
           start room()
577
           return
578
579
      if player y == -1: # through door at TOP
580
           clock.unschedule(hazard move)
581
           current room -= MAP WIDTH
582
           generate map()
583
           player y = room height - 1 # enter at bottom
584
          player x = int(room width / 2) # enter at door
585
          player frame = 0
586
           start room()
587
           return
```

```
697
                    if objects[item here][1] is not None: # If object has a shadow
698
                        shadow image = objects[item here][1]
699
                        # if shadow might need horizontal tiling
700
                        if shadow image in [images.half shadow,
701
                                            images.full shadow]:
702
                            shadow width = int(image.get width() / TILE SIZE)
703
                            # Use shadow across width of object.
704
                            for z in range(0, shadow width):
705
                               draw shadow(shadow image, y, x+z)
706
                        else:
707
                            draw shadow(shadow image, y, x)
708
709
           if (player y == y):
710
                    draw player()
711
712
        screen.surface.set clip(None)
. . .
```

16. Scroll and click at the end of Line 707.

- 17. Press ENTER twice.
- 18. Type the code you see on Lines 709 711 of the screenshot below. Ensure your indentation and punctuation match what is shown in the screenshot.

697	if objects[item_here][1] is not None: # If object has a shadow
698	<pre>shadow_image = objects[item_here][1]</pre>
699	<pre># if shadow might need horizontal tiling</pre>
700	if shadow_image in [images.half_shadow,
701	<pre>images.full shadow]:</pre>
702	<pre>shadow_width = int(image.get_width() / TILE_SIZE)</pre>
703	# Use shadow across width of object.
704	<pre>for z in range(0, shadow_width):</pre>
705	draw shadow(shadow_image, y, x+z)
706	else:
707	draw_shadow(shadow_image, y, x)
708	
709	hazard_here = hazard_map[y][x]
710	if hazard here != 0: # If there's a hazard at this position
711	draw_image(objects[hazard_here][0], y, x)
712	
713	<pre>if (player_y == y):</pre>
714	draw_player()
715	
716	<pre>screen.surface.set_clip(None)</pre>

Line 709 creates sets the value of the hazard\_here variable to the current value of the y and x coordinate positions on the hazard\_map.

Line 710 will check to see if the value of the hazard\_here variable is not equal to 0. Remember, when we created the hazard\_map list, we set all of the values to 0. We will eventually change the values in the hazard\_map list if there is, in fact, a hazard in that particular tile. This function will check to see if the value in the hazard\_map list is NOT zero, meaning there is a hazard at that tile.

If this is true, Line 711 will draw the appropriate image that represents the hazard at the appropriate location.

19. Scroll and click at the end of Line 1184.

- 20. Press ENTER three times.
- 21. Type the code you see on Lines 1187 1203 of the screenshot below. Ensure your indentation, punctuation, and line spacing match what is shown in the screenshot.

```
1183
        objects[21][0] = frames[airlock door frame]
1184
        objects[21][1] = shadow frames[airlock door frame]
1185
1186
1187 #################
1188 ## AIR ##
1190
1191 def draw energy air():
1192 box = Rect((20, 765), (350, 20))
      screen.draw.filled rect(box, BLACK)
1193
      screen.draw.text("AIR", (20, 766), color=BLUE)
1194
1195
      screen.draw.text("ENERGY", (180, 766), color=YELLOW)
1196
1197
      if air > 0:
1198
           box = Rect((50, 765), (air, 20))
1199
           screen.draw.filled rect(box, BLUE) # Draw new air bar.
1200
1201
      if energy > 0:
1202
          box = Rect((250, 765), (energy, 20))
1203
           screen.draw.filled rect(box, YELLOW) # Draw new energy bar.
1204
1205
1207 ## START ##
1208 #################
```

Lines 1187 – 1189 create a new section in your code called AIR.

Line 1191 creates a new method called draw\_energy\_air.

We begin this function by drawing a black box over the status area at the bottom of the screen to clear it (Lines 1192 – 1193). We then add the AIR label in blue and the ENERGY label in yellow

(Lines 1194 – 1195). This function will use the air and energy variables, which are already set to 100 in the VARIABLES part of the program at the beginning of the code.

If the player has some air left (if the variable air is more than 0), a box is created that uses the air variable for its width (Lines 1197 – 1198). The box is then filled with the color blue (Line 1199). This draws the AIR indicator bar, which starts off being 100 pixels wide and gets smaller as the AIR variable decreases.

We use similar instructions on Lines 1201 - 1203 to draw the energy bar, but the bar's start position is farther to the right.

 Type the code you see on Lines 1205 – 1225 of the screenshot below. Ensure your indentation, punctuation, and line spacing match what is shown in the screenshot.

```
1187 ################
1188 ## AIR
               ##
1190
1191 def draw energy air():
        box = Rect((20, 765), (350, 20))
1192
1193
       screen.draw.filled rect(box, BLACK)
1194
      screen.draw.text("AIR", (20, 766), color=BLUE)
1195
       screen.draw.text("ENERGY", (180, 766), color=YELLOW)
1196
       if air > 0:
1197
1198
           box = Rect((50, 765), (air, 20))
1199
           screen.draw.filled rect(box, BLUE) # Draw new air bar.
1200
1201
       if energy > 0:
            box = Rect((250, 765), (energy, 20))
1202
1203
            screen.draw.filled rect(box, YELLOW) # Draw new energy bar.
1204
1205 def end the game(reason):
1206
       global game over
1207
       show text(reason, 1)
      game over = True
1208
1209
      sounds.say mission fail.play()
1210
      sounds.gameover.play()
1211
      screen.draw.text("GAME OVER", (120, 400), color = "white",
1212
                        fontsize = 128, shadow = (1, 1), scolor = "black")
1213
1214 def air countdown():
1215 global air, game over
1216
       if game over:
1217
           return # Don't sap air when they're already dead.
1218
      air -= 1
       if air == 20:
1219
1220
           sounds.say air low.play()
1221
      if air == 10:
1222
           sounds.say act now.play()
1223
      draw_energy_air()
       if air < 1:
1224
1225
            end the game("You're out of air!")
1226
1227
1228 #################
1229 ## START ##
1230 ################
```

Line 1205 creates a new function called end\_the\_game. This function will require the reason to be input whenever it is called.

Line 1206 converts the game\_over variable to a global variable.

Line 1207 will display the reason for the character's death on the screen.

Line 1208 will change the value of the game\_over variable to True.

Line 1209 will play the say\_mission\_fail sound and Line 1210 will play the gameover sound.

Lines 1211 – 1212 will draw text that says GAME OVER on the screen in white font with a black drop shadow (scolor means shadow color).

Line 1214 creates another function called air\_countdown.

Line 1215 converts and air and game\_over variables to global variables.

Line 1216 will check to see if the game\_over variable is True. If so, we use a return statement on Line 1217 to exit out of the function and onto the next line of code below of the air\_countdown method. We do not need to continue executing the function if the game is over.

Line 1218 will reduce the value of the air variable by 1.

Line 1219 will check to see if the value of the air variable is equal to 20. If this is true, the say\_air\_low sound will play (Line 1220).

Line 1221 will check to see if the value of the air variable is equal to 10. If this is due, the say\_act\_now sound will play (Line 1222).

Line 1223 will redraw the energy and air bars using the draw\_energy\_air function.

Finally, Line 1224 will check to see if the value of the air variable is less than 1. If this is true, Line 1225 will run the end\_the\_game function using the reason, "You're out of air!"

25. Type the code you see on Lines 1227 – 1231 of the screenshot below. Ensure your indentation and punctuation match what is shown in the screenshot.

```
1214 def air countdown():
1215 global air, game over
1216
        if game over:
1217
            return # Don't sap air when they're already dead.
1218
       air -= 1
       if air == 20:
1219
1220
            sounds.say air low.play()
1221
       if air == 10:
1222
            sounds.say_act_now.play()
1223 draw_energy_air()
1224 if air < 1:
1225
            end the game ("You're out of air!")
1226
1227 def alarm():
1228 show_text("Air is running out, " + PLAYER_NAME
1229
                 + "! Get to safety, then radio for help!", 1)
1230sounds.alarm.play(3)1231sounds.say_breach.play()
1232
1233
1235 ## START ##
1236 ################
```

Line 1227 creates a new function called alarm.

Lines 1228 – 1229 will display a new message that tells the player that they are running out of air. Lines 1230 and 1231 will play the alarm and say\_breach sounds.

26. Press ENTER three times.

 Type the code you see on Lines 1234 – 1248 of the screenshot below. Ensure your indentation, punctuation, and line spacing match what is shown in the screenshot.

```
1227 def alarm():
1228
         show text("Air is running out, " + PLAYER NAME
1229
                   + "! Get to safety, then radio for help!", 1)
1230
         sounds.alarm.play(3)
         sounds.say_breach.play()
1231
1232
1233
1235 ## HAZARDS ##
1236 ################
1237
1238 hazard data = {
1239
         # room number: [[y, x, direction, bounce addition to direction]]
1240
         28: [[1, 8, 2, 1], [7, 3, 4, 1]], 32: [[1, 5, 4, -1]],
1241
         34: [[5, 1, 1, 1], [5, 5, 1, 2]], 35: [[4, 4, 1, 2], [2, 5, 2, 2]],
1242
         36: [[2, 1, 2, 2]], 38: [[1, 4, 3, 2], [5, 8, 1, 2]],
1243
         40: [[3, 1, 3, -1], [6, 5, 2, 2], [7, 5, 4, 2]],
1244
         41: [[4, 5, 2, 2], [6, 3, 4, 2], [8, 1, 2, 2]],
1245
         42: [[2, 1, 2, 2], [4, 3, 2, 2], [6, 5, 2, 2]],
1246
         46: [[2, 1, 2, 2]],
1247
         48: [[1, 8, 3, 2], [8, 8, 1, 2], [3, 9, 3, 2]]
         }
1248
1249
1250
1251 #################
1252 ##
         START
                  ##
1253 ################
```

Lines 1234 – 1236 create a new section in your code called HAZARDS.

Lines 1238 – 1248 create the hazard\_data dictionary. This dictionary uses the room numbers as dictionary keys. For each room, there is a list that contains the data for all the hazards. The data for each hazard is in a list that contains the hazard's y position, x position, starting direction, and number to add to the direction of the hazard when it hits something.

As a note, direction 1 is up, 2 is right, 3 is down, and 4 is left.

29. Type the code you see on Lines 1250 – 1267 of the screenshot below. Ensure your indentation, punctuation, and line spacing match what is shown in the screenshot.

```
1235 ## HAZARDS ##
1237
1238 hazard data = {
1239
        # room number: [[y, x, direction, bounce addition to direction]]
1240
        28: [[1, 8, 2, 1], [7, 3, 4, 1]], 32: [[1, 5, 4, -1]],
1241
        34: [[5, 1, 1, 1], [5, 5, 1, 2]], 35: [[4, 4, 1, 2], [2, 5, 2, 2]],
1242
       36: [[2, 1, 2, 2]], 38: [[1, 4, 3, 2], [5, 8, 1, 2]],
1243
       40: [[3, 1, 3, -1], [6, 5, 2, 2], [7, 5, 4, 2]],
       41: [[4, 5, 2, 2], [6, 3, 4, 2], [8, 1, 2, 2]],
1244
1245
       42: [[2, 1, 2, 2], [4, 3, 2, 2], [6, 5, 2, 2]],
       46: [[2, 1, 2, 2]],
1246
1247
        48: [[1, 8, 3, 2], [8, 8, 1, 2], [3, 9, 3, 2]]
1248
        1
1249
1250 def deplete energy(penalty):
1251
       global energy, game over
1252
       if game over:
1253
            return # Don't sap energy when they're already dead.
1254
       energy = energy - penalty
1255
       draw energy air()
1256
       if energy < 1:</pre>
            end the game ("You're out of energy!")
1257
1258
1259 def hazard start():
       global current room hazards list, hazard map
1260
1261
        if current room in hazard data.keys():
            current room hazards list = hazard data[current room]
1262
1263
            for hazard in current room hazards list:
                hazard_y = hazard[0]
1264
                hazard x = hazard[1]
1265
                hazard_map[hazard_y][hazard x] = 49 + (current room % 3)
1266
1267
            clock.schedule interval(hazard move, 0.15)
1268
1269
1270 ################
1271 ##
        START
                # #
1272 ################
```

Line 1250 creates a new method called deplete\_energy. This method will require the penalty to be input whenever it is called.

Line 1251 concerts the energy and game\_over variables to global variables.

Line 1252 will check to see if the game\_over variable is True. If so, Line 1253 will execute a return statement to exit out of the deplete\_energy method and discontinue its execution.

Line 1254 will subtract the penalty value from the current value of the energy variable to calculate the new value of the energy variable. Then, the energy bar will be redrawn using the draw\_energy\_air method on Line 1255.

The Line 1256 will check to see if the value of the energy variable is less than 1. If so, Line 1257 will execute the end\_the\_game method using the reason, "You're out of energy!"

Line 1259 creates another new function called hazard\_start.

Line 1260 converts the current\_room\_harzards\_list and the hazard\_map to global variables.

Line 1261 will check to see if the current\_room that the player is in is in the hazard\_data.keys, meaning that the current room number is listed as a key in the hazard\_data list and that room has a hazard in it.

If so, Line 1262 will input the hazard data for that room to the current\_room\_hazards\_list to store all of the hazards in that room.

Lines 1263 – 1266 will use the hazard data from the current\_room\_hazards\_list to valvulate the y and x location of each room hazard. The three hazard objects have the numbers 49, 50, and 51 in the objects dictionary. The program uses a simple calculation to work out which one goes into a particular room. As you've seen before, Python's % operator gives you the remainder after doing a division. When you divide any number by 3, the remainder will be 0, 1, or 2. So the program divides the room number by 3 and adds the remainder to 49 to pick an object number (Line 1266).

The function finishes on Line 1267 by scheduling the hazard)move function to run every 0.15 seconds.

31. Type the code you see on Lines 1269 – 1274 of the screenshot below. Ensure your indentation, punctuation, and line spacing match what is shown in the screenshot.

```
1259 def hazard start():
1260
        global current room hazards list, hazard map
1261
        if current room in hazard data.keys():
            current room hazards list = hazard data[current room]
1262
1263
            for hazard in current room hazards list:
1264
                hazard y = hazard[0]
1265
                hazard x = hazard[1]
1266
                hazard map[hazard y][hazard x] = 49 + (current room % 3)
1267
            clock.schedule interval(hazard move, 0.15)
1268
1269 def hazard move():
      global current_room_hazards_list, hazard_data, hazard map
1270
1271
       global old player x, old player y
1272
1273
      if game over:
1274
           return
1275
1276
1277 ################
1278 ## START ##
1279 #################
```

Line 1269 creates a new function called hazard\_move.

Lines 1270 and 1271 convert the current\_room\_hazards\_list, hazard\_data, hazard\_map, old\_player\_x, and old\_player\_y to global variables.

Line 1273 will check to see if the game\_over variable is True. If so, Line 1274 will execute a return statement to exit out of this function and stop its execution.

33. Type the code you see on Lines 1276 – 1294 of the screenshot below. Ensure your indentation, punctuation, and line spacing match what is shown in the screenshot.

```
1269 def hazard move():
1270
        global current room hazards list, hazard data, hazard map
1271
        global old player x, old player y
1272
1273 if game_over:
1274
           return
1275
1276
       for hazard in current room hazards list:
1277
            hazard y = hazard[0]
1278
            hazard x = hazard[1]
1279
            hazard direction = hazard[2]
1280
1281
           old hazard x = hazard x
1282
            old hazard y = hazard y
1283
           hazard_map[old_hazard_y][old_hazard_x] = 0
1284
1285
           if hazard direction == 1: # up
               hazard y -= 1
1286
1287
           if hazard direction == 2: # right
1288
                hazard x += 1
1289
           if hazard direction == 3: # down
1290
               hazard y += 1
1291
            if hazard direction == 4: # left
1292
               hazard x -= 1
1293
1294
           hazard should bounce = False
1295
1296
1297 ################
1298 ## START ##
1299 #################
```

The hazard\_move function uses an idea similar to the player movement. The hazard's position is stored in the old\_hazard\_x and old\_hazard\_y variables. The hazard is then moved using the if statements on Lines 1285 – 1294.

35. Type the code you see on Lines 1296 – 1301 of the screenshot below. Ensure your indentation and punctuation match what is shown in the screenshot.

```
1276
        for hazard in current room hazards list:
1277
            hazard y = hazard[0]
1278
            hazard x = hazard[1]
1279
            hazard direction = hazard[2]
1280
1281
            old hazard x = hazard x
1282
            old hazard y = hazard y
1283
            hazard map[old hazard y][old hazard x] = 0
1284
1285
            if hazard direction == 1: # up
               hazard y -= 1
1286
1287
            if hazard direction == 2: # right
1288
                hazard x += 1
1289
            if hazard direction == 3: # down
1290
                hazard y += 1
1291
            if hazard direction == 4: # left
1292
                hazard x -= 1
1293
1294
            hazard should bounce = False
1295
1296
            if (hazard y == player y and hazard x == player x) or \
1297
               (hazard_y == from player_y and hazard_x == from player_x
                and player frame > 0):
1298
1299
                sounds.ouch.play()
1300
                deplete energy(10)
1301
                hazard should bounce = True
1302
1303
1305 ## START ##
1306 #################
```

Lines 1296 – 1298 will check to see if the hazard has hit the player. If so, Line 1299 will play the ouch sound. Line 1300 will run the deplete\_energy function to deplete the player's energy by 10. Line 1301 will change the value of the hazard\_should\_bounce variable to True (more on this later).

37. Type the code you see on Lines 1303 – 1315 of the screenshot below. Ensure your indentation and punctuation match what is shown in the screenshot.

1294	hazard_should_bounce = False
1295	
1296	if (hazard_y == player_y and hazard_x == player_x) or \
1297	(hazard_y == from_player_y and hazard_x == from_player_x
1298	and player_frame > 0):
1299	sounds.ouch.play()
1300	deplete_energy(10)
1301	hazard_should_bounce = True
1302	
1303	# Stop hazard going out of the doors
1304	<pre>if hazard_x == room_width:</pre>
1305	hazard_should_bounce = True
1306	$hazard_x = room_width - 1$
1307	<pre>if hazard_x == -1:</pre>
1308	hazard_should_bounce = True
1309	hazard x = 0
1310	<pre>if hazard_y == room_height:</pre>
1311	hazard_should_bounce = True
1312	hazard_y = room_height - 1
1313	<pre>if hazard_y == -1:</pre>
1314	hazard_should_bounce = True
1315	$hazard_y = 0$
1316	
1317	
1318	*****
1319	## START ##
1320	******

Line 1303 contains a comment.

Lines 1304 – 1315 contain statements that check to see if the hazard has gone out the room door by checking the hazards x and y locations. In each instance, the hazard\_should\_bounce variable is changed to True and the hazard is moved back into the edge of the room.

39. Type the code you see on Lines 1317 – 1334 of the screenshot below. Ensure your indentation, punctuation, and line spacing match what is shown in the screenshot.

```
1294
             hazard should bounce = False
1295
1296
             if (hazard y == player y and hazard x == player x) or \setminus
1297
                (hazard y == from player y and hazard x == from player x
1298
                and player frame > 0):
1299
                sounds.ouch.play()
1300
                 deplete energy(10)
1301
                hazard should bounce = True
1302
1303
            # Stop hazard going out of the doors
1304
            if hazard x == room width:
1305
                hazard should bounce = True
1306
                hazard x = room width - 1
1307
            if hazard x == -1:
1308
                hazard should bounce = True
1309
                hazard \mathbf{x} = 0
1310
            if hazard y == room height:
1311
                hazard should bounce = True
                 hazard_y = room_height - 1
1312
1313
             if hazard y == -1:
1314
                 hazard should bounce = True
1315
                 hazard y = 0
1316
1317
            # Stop when hazard hits scenery or another hazard.
1318
            if room map[hazard y][hazard x] not in items player may stand on \
1319
                    or hazard map[hazard y][hazard x] != 0:
1320
                 hazard should bounce = True
1321
1322
            if hazard should bounce:
1323
                hazard y = old hazard y # Move back to last valid position.
                hazard x = old hazard x
1324
1325
                hazard direction += hazard[3]
1326
                if hazard direction > 4:
1327
                    hazard direction -= 4
                if hazard direction < 1:
1328
1329
                    hazard direction += 4
1330
                 hazard[2] = hazard direction
1331
1332
             hazard map[hazard y][hazard x] = 49 + (current room % 3)
1333
             hazard[0] = hazard y
1334
            hazard[1] = hazard x
1335
1336
1338 ##
        START ##
1339 #################
```

Line 1317 contains a comment.

Lines 1318 – 1319 will check to see if the hazard has hit scenery or another hazard in the room. If this is true, Line 1320 will change the value of the hazard\_should\_bounce variable to True.

Line 1322 will check to see if the hazard\_should\_bounce variable is set to True. In the past few steps, we have set this variable to True if the hazard has hit anything (a player, the edge of the room, scenery, or another hazard).

If this is true, Lines 1323 – 1324 will reset the hazard's position back to its old position. Line 1325 will change the direction of the hazard by adding the last number it its list of data to the direction number. If adding this number increases the direction number to a number more than 4, the function subtracts 4 because 4 is the highest valid direction number (Lines 1326 – 1327). On the other hand, if adding the hazard\_direction number decreases the direction number to less than 1, the function adds 4 (Lines 1328 – 1329). Finally, the new direction is saved in the hazard data list (Line 1330).

At the end of the function, the appropriate hazard is put into the hazard map at the appropriate y and x location (Lines 1332 - 1334).

```
40. Ensure your "START" comment runs on Lines 1337 – 1339, as shown in the screenshot below.
   1327
                     hazard direction -= 4
   1328
                  if hazard direction < 1:
   1329
                     hazard direction += 4
   1330
                 hazard[2] = hazard direction
  1331
  1332
             hazard map[hazard y][hazard x] = 49 + (current room % 3)
             hazard[0] = hazard y
  1333
  1334
             hazard[1] = hazard x
   1335
   1336
   1338 ## START ##
```

41. Scroll and click at the end of Line 1344.

# 42. Press ENTER.

43. Type the code you see on Lines 1345 - 1349 of the screenshot below.

Lines 1345 – 1346 will use the clock.schedule\_unique function to run the draw\_energy\_air and alarm functions once, after a delay of .5 seconds and 10 seconds, respectively. These functions will run once, after a delay, when the program starts.

Line 1347 contains a comment.

Line 1348 will run the air\_countdown function every 5 seconds.

Line 1349 will play the mission sound.

44. Go to File > Save. Your game is complete!

# **Final Code:**

	# soope
10	and a second
1	and a second second
1.5	11122222212222
- 6	** VRAINBLES ##
17	************
1	THE REAL PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDR
11	
12	SFLATER vertables
13	FLAYER_MARK = "Alice"
34	FRIENDI NUME = "Jose"
12	PRIENCE DARK - PRICING
- 99	
19	top left x = 100
19	top_left_y = 160
20	
110	histo_councies = [inages.filor, inages.piller, inages.soil]
55	LANDER SECTOR = random, randint (1, 24)
24	LANDER X = random.randint(1, 11)
25	LANDER_Y = random.randint(1, 11)
26	
24	star_otca = 00
29	player y, player $x = 2, 5$
50	game_over = Telse
31	NUMBER - I
12	FLATER = (
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95	images.spacesuit_left_4
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37	"right": [images.specesuit right, images.specesuit right],
10	images.spacesuit_right_2, images.spacesuit_right_3,
40	14
41	"up": [images.spacesuit_back, images.spacesuit_back_1,
42	images.spacesuit_back_2, images.spacesuit_back_3,
-13	images.spacesult_back_4
-77	There is a second to be a second to
40	index present front 2. index precent front 3.
47	images.spacesuit_front 4
40	1 martine and the second
49	1
10	niavar direction = "doun"
50	player frame = 0
69	player_image = PLAYER(player_direction)(player_frame)
2.6	player_offset_x, player_offset_y = 0, 0
20	TRANSFORMENT AND A 1
0.00.7	PIAYER_INADOW = { "left": {images.spacesuit left shadow, images.spacesuit left 1 shadow,
1070	<pre>PLATEM_SHAROW =       "left": images.spacesuit_left_shadow, images.spacesuit_left_1_shadow,     images.spacesuit_left_2_shadow, images.spacesuit_left_3_shadow,</pre>
1 1 1 0 0 0	<pre>FLATE_idADOW = 1 "isto": [mage.spacesuit_left_thedow, images.spacesuit_left_l_shedow, images.spacesuit_leftshedow, images.spacesuit_leftshedow, images.spacesuit_leftshedow,</pre>
11110000	<pre>FLATES SUBLOW =   "Left": [images.spacesuit_left_shadow, images.spacesuit_left_] shadow, images.spacesuit_left_2 shadow, images.spacesuit_left_2 shadow images.spacesuit_left_2 shadow</pre>
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11.11111111111111111111111111111111111	<pre>PLATE JABAOW = !     "first": Images.spacesuit_left_hadow, images.spacesuit_left_leshadow,     Images.spacesuit_left_shadow, images.spacesuit_left_leshadow,     Images.spacesuit_left_shadow, images.spacesuit_left_leshadow,     Images.spacesuit_left_leshadow, images.spacesuit_leshadow,     Images.spacesuit_left_leshadow, images.spacesuit_leshadow,     Images.spacesuit_left_leshadow, images.spacesuit_leshadow,     Images.spacesuit_left_leshadow, images.spacesuit_leshad_leshadow,     Images.spacesuit_lesft_leshadow,     Images.spacesuit_lest_leshadow,     Images.spacesuit_lest_leshadow,     Images.spacesuit_lest_leshadow,     Images.spacesuit_lest_leshadow,     Images.spacesuit_lest_leshadow,     Images.spacesuit_lest_leshadow,     Images.spacesuit_lest_leshadow,     Images.spacesuit_lest_lest_leshadow,     Images.spacesuit_lest_lest_leshadow,     Images.spacesuit_lest_lest_leshadow,     Images.spacesuit_lest_lest_lest_lest_lest_lest_lest_les</pre>
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10 地方的的复数动动的的动物的的现在分词为为为为	<pre>PAATE JOHON - 1 "Istar: Index. spacesuit_left_shadow, images.spacesuit_left_ishadow, images.spacesuit_left_shadow, images.spacesuit_left_j shadow, images.spacesuit_right_phadow, images.spacesuit_right_leAndow itages.spacesuit_right_jhadow, images.spacesuit_right_leAndow itages.spacesuit_right_jhadow, images.spacesuit_right_leAndow images.spacesuit_right_jhadow, images.spacesuit_right_leAndow images.spacesuit_right_jhadow, images.spacesuit_right_leAndow images.spacesuit_right_jhadow, images.spacesuit_right_leAndow images.spacesuit_right_jhadow, images.spacesuit_right_leAndow images.spacesuit_right_jhadow, images.spacesuit_right_leandow, images.spacesuit_right_jhadow, images.spacesuit_right_leandow, images.spacesuit_front_leAndow, images.spacesuit_front_leAndow, images.spacesuit_front_leAndow } playou_rimaco_imadow = FLATER_SEADOW["disma"][0] Tillayo_Ilandow = FLATER_SEADOW["disma"][0] </pre>
19. 建合物的复数成价的复数的现在分词 计可能指示的	<pre>FAXTE JAMON = {     "First": Images.spacesuit_left_shadow, images.spacesuit_left_lemadow,     Images.spacesuit_left_shadow, images.spacesuit_left_lemadow,     Images.spacesuit_pett_lemadow,     Images.spacesuit_pett_lemadow, images.spacesuit_lemadow,     Images.spacesuit_pett_lemadow, images.spacesuit_lemadow,     Images.spacesuit_pett_lemadow, images.spacesuit_lemat_lemadow,     Images.spacesuit_pett_lemadow, images.spacesuit_lemat_lemadow,     Images.spacesuit_pett_lematow, images.spacesuit_lemat_lemadow,     Images.spacesuit_pett_lematow, images.spacesuit_lemat_lematow,     Images.spacesuit_pett_lematow, images.spacesuit_lemat_lematow,     Images.spacesuit_pett_lematow, images.spacesuit_lemat_lematow,     Images.spacesuit_pett_lematow, images.spacesuit_lemat_lematow,     Images.spacesuit_pett_lematow, images.spacesuit_lemat_lematow,     Images.spacesuit_pett_lematow,     Images.spacesuit_pett_lematow,     Images.spacesuit_front_lematow,     Images.spacesuit_pett_lematow,     Images.spacesuit_lematow,     Images.spacesuit_lematow,     Images.spacesuit_pett_lematow,     Images.spacesuit_pett_lematow,     Images.spacesuit_lematow,     Ima</pre>
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19. 出行的的的复数的名词复数的的现在分词行为为行为行用的目的	<pre>PLATE JAMON = 1 "Integer spacesuit_left_shadow, images.spacesuit_left_lshadow, images.spacesuit_left_shadow, images.spacesuit_left_lshadow, images.spacesuit_left_shadow, images.spacesuit_left_lshadow, images.spacesuit_right_lshadow, images.spacesuit_lshadow, images.spacesuit_right_lshadow, images.spacesuit_lshadow, images.spacesuit_right_lshadow, images.spacesuit_lshadow, images.spacesuit_lshadow, images.spacesuit_lshadow, images.spacesuit_right_lshadow, images.spacesuit_lshadow, images.spacesuit_lshadow, images.spacesuit_lshadow, images.spacesuit_lshadow, images.spacesuit_lshadow, images.spacesuit_lshadow, images.spacesuit_lshadow, images.spacesuit_lshadow, images.spacesuit_lshadow, images.spacesuit_front_lshadow, imag</pre>
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19. 出方的的最早早的目的成功的的方法有利的方法方利的的目标的的	<pre>PAATE JAMAOW = 1 "Integer spacesuit_left_shadow, images.spacesuit_left_ishadow, images.spacesuit_left_shadow, images.spacesuit_left_ishadow, images.spacesuit_left_shadow, images.spacesuit_left_ishadow, images.spacesuit_right_phadow, images.spacesuit_right_leAmaow, images.spacesuit_right_jhadow, images.spacesuit_right_leAmaow, images.spacesuit_right_phadow, images.spacesuit_right_leAmaow, images.spacesuit_right_jhadow, images.spacesuit_right_leAmaow, images.spacesuit_ri</pre>
11日本部の日本部の市田市村田の村村村村村村村村村村村村村村村村村村村	<pre>PAATE JAMAOW = {     "left": [mages.spacesuit_left_shadow, images.spacesuit_left_leshadow,     images.spacesuit_left_shadow, images.spacesuit_left_leshadow,     images.spacesuit_rept"_shadow, images.spacesuit_left_leshadow,     images.spacesuit_rept"_shadow, images.spacesuit_left_leshadow,     images.spacesuit_rept"_shadow, images.spacesuit_left_leshadow,     images.spacesuit_left_leshadow, images.spacesuit_left_leshadow,     images.spacesuit_left_leshadow, images.spacesuit_lesht_leshadow,     images.spacesuit_left_leshadow, images.spacesuit_lesht_leshadow,     images.spacesuit_lest_leshadow, images.spacesuit_lesh_leshadow,     images.spacesuit_lest_leshadow, images.spacesuit_lest_leshadow,     images.spacesuit_lest_lest_leshadow,     images.spacesuit_lest_lest_lestadow,     images.spacesuit_lest_lestadow, images.spacesuit_lest_lestadow,     images.spacesuit_lest_lestadow,     images.spacesuit_lest_lestadow,     images.spacesuit_lest_lestadow,     images.spacesuit_lest_lestadow,     images.spacesuit_lest_lestadow,     images.spacesuit_lest_lestadow,     images.spacesuit_lest_lestadow,     images.spacesuit_lest_lestadow,     images.spacesuit_lest_lestadow,     images.spacesuit_lest_lestadow,     images.spacesuit_lestadow,     images.spacesuit_lest</pre>
	<pre>PLATE JAMON = {     "First": Images.spacesuit_left_shadow, images.spacesuit_left_babdow,     images.spacesuit_left_shadow, images.spacesuit_left_babdow,     images.spacesuit_icst"_shadow, images.spacesuit_left_babdow,     images.spacesuit_icst"_shadow, images.spacesuit_left_babdow,     images.spacesuit_icst"_shadow, images.spacesuit_left_babdow,     images.spacesuit_icst"_shadow, images.spacesuit_left_babdow,     images.spillar_50,     images.spillar_51,     images.spillar_5</pre>
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	<pre>PAATE JAMAON = 1     "list": [mages.spacesuit_list"_shadow, images.spacesuit_list[_l_shadow,     images.spacesuit_list"_shadow, images.spacesuit_list[_l_shadow,     images.spacesuit_rightshadow, images.spacesuit_list[_l_shadow,     images.spacesuit_right_lishadow, images.spacesuit_list[_l_shadow,     images.spacesuit_list(_l_shadow, images.spacesuit_list[_l_shadow,     images.spacesuit_list(_lost_lishadow, images.spacesuit_list(_l_shadow,     images.spacesuit_list(_lishadow, images.spacesuit_list(_lishadow,     images.spacesuit_list(_lishadow, images.spacesuit_list(_lishadow,     images.spacesuit_list(_lishadow, images.spacesuit_list(_lishadow,     images.spacesuit_list(_list(list(list(list(list(list(list(list(</pre>
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	<pre>PAATE JAMAON - 1     "list": [mages.spacesuit_list"_shadow, images.spacesuit_list[_ishadow,     images.spacesuit_list"_shadow, images.spacesuit_list[_ishadow,     images.spacesuit_rightshadow, images.spacesuit_list[_ishadow,     images.spacesuit_rightshadow, images.spacesuit_list[_ishadow,     images.spacesuit_right_lishadow, images.spacesuit_list[_ishadow,     images.spacesuit_list[_ishadow, images.spacesuit_list[_ishadow,     images.spacesuit_right_lishadow, images.spacesuit_list[_ishadow,     images.spacesuit_list[_ishadow, images.spacesuit_list[_ishadow,     images.spacesuit_list[_ishadow, images.spacesuit_list[_ishadow,     images.spacesuit_list[_istadow, images.spacesuit_list[_ishadow,     images.spacesuit_list[_istadow, images.spacesuit_list[_ishadow,     images.spacesuit_list[_istadow, images.spacesuit_list[_ishadow,     images.spacesuit_list[_istadow]_images.spacesuit_list[_istadow,     images.spacesuit_listadow, images.spacesuit_listadow,     images.spacesuit_listadow, images.spacesuit_listadow,     images.spacesuit_listadow, images.spacesuit_listadow,     images.spacesuit_listadow, images.spacesuit_listadow,     images.spacesuit_listadow, images.spacesuit_listadow,     images.spacesuit_listadow, images.spacesuit_listadow,     images.spacesuit_listadow,     images.spacesuit_listadow, images.spacesuit_listadow,     images.sp</pre>
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日本方的名句是此是名者的有什么是你?""你?"你们不是不不可能的自己的的话题。如果我们的事情是	<pre>PAXTE JAMACO = {     "First": [mage:.spacesuit_left_shadow, images.spacesuit_left_l_shadow,     images.spacesuit_left_shadow, images.spacesuit_left_l_shadow,     images.spacesuit_left_shadow, images.spacesuit_left_l_shadow,     images.spacesuit_left_shadow, images.spacesuit_left_l_shadow,     images.spacesuit_left_l_shadow, images.spacesuit_left_l_shadow,     images.spacesuit_left_left_l_shadow     images.spacesuit_left_left_l_shadow,     images.spacesuit_left_left_l_shadow,     images.spacesuit_left_left_l_shadow     images.spacesuit_left_left_l_shadow     images.spacesuit_left_left_l_shadow     images.spacesuit_left_left_l_shadow     images.spacesuit_left_left_l_shadow     images.spacesuit_left_left_left_left_left_left_left_lef</pre>
日本方部的最大的名称印度的的名称了方式?你不是不不能把自己能够的能能可能够和其他的考虑是不可	<pre>PAATE JAMANO + 1     "IstF: [mage.spacesuit_left_shadow, images.spacesuit_left_l_shadow,     images.spacesuit_left_shadow, images.spacesuit_left_l_shadow,     images.spacesuit_right_lehadow, images.spacesuit_left_l_shadow,     images.spacesuit_right_lehadow, images.spacesuit_left_l_shadow,     images.spacesuit_right_lehadow, images.spacesuit_left_l_shadow,     images.spacesuit_left_lehadow, images.spacesuit_left_l_shadow,     images.spacesuit_right_lehadow, images.spacesuit_left_l_shadow,     images.spacesuit_left_lehadow, images.spacesuit_left_l_shadow,     images.spacesuit_left_lehadow, images.spacesuit_left_l_shadow,     images.spacesuit_left_lend_shadow, images.spacesuit_lehadshadow,     images.spacesuit_left_lend_shadow, images.spacesuit_lehadshadow,     images.spacesuit_left_lend_shadow, images.spacesuit_lehadshadow,     images.spacesuit_left_lendshadow, images.spacesuit_lendshadow,     images.spacesuit_left_lendshadow, images.spacesuit_lendshadow,     images.spacesuit_left_foonshadow, images.spacesuit_lendshadow,     images.spacesuit_left_foonshadow, images.spacesuit_lendshadow,     images.spacesuit_left_foonshadow     images.spacesuit_lendshadow     images.spacesuit_left_foonshadow     images.spacesuit_lend_shadow,     images.spacesuit_left_foonshadow     images.spacesuit_lend_shadow     images.spacesuit_left_foonshadow     images.spacesuit_left_foon_shadow     images.spacesuit_left_foonshadow     images.spacesuit_left_foon_shadow     images.s</pre>
日本市场的最优化的资源和资源的资产方法的产产方式产产产产品的利用的资源的资源和资源的资源和资产资格	<pre>PAARE JABAOW - 1     "Inter: number spacesuit_left_shadow, images.gacesuit_left_lemañow,     inages.gacesuit_left_shadow, images.gacesuit_left_lemañow,     inages.gacesuit_ight_lemadow, images.gacesuit_left_lemañow,     inages.gacesuit_ight_lemadow, images.gacesuit_left_lemañow,     inages.gacesuit_ight_lemadow, images.gacesuit_lematow,     inages.gacesuit_ight_lemadow, images.gacesuit_lematow,     inages.gacesuit_left_lemadow, images.gacesuit_lematow,     inages.gacesuit_left_lemadow,     images.gacesuit_left_lematow, images.gacesuit_lematow,     images.gacesuit_left_lematow,     images.gacesuit_left_lematow, images.gacesuit_lematow,     images.gacesuit_left_lematow,     images.gacesuit_left_lematow,     images.gacesuit_left_lematow,     images.gacesuit_left_lematow,     images.gacesuit_left_lematow,     images.gacesuit_left_lematow,     images.gacesuit_lematow,     images.gacesuit_left_lematow,     images.gacesuit_left_lematow,     images.gacesuit_left_lematow,     images.gacesuit_left_lematow,     images.gacesuit_left_lematow,     images.gacesuit_left_lematow,     images.gacesuit_left_lematow,     images.gacesuit_lematow,     images.gacesuit_lematow,     images.gacesuit_left_lematow,     images.gacesuit_lematow,     images.gacesuit_lematow,     images.gacesuit_left_lematow,     images.gacesuit_left_lematow,     images.gacesuit_lematow,     images.gatesuit_lematow,     images.ga</pre>
	<pre>PATHE JAMANO + 1     "Info; spacesult_left_shadow, images.spacesult_left_l_shadow,     images.spacesult_left_shadow, images.spacesult_left_l_shadow,     images.spacesult_left_shadow, images.spacesult_left_l_shadow,     images.spacesult_rept_left_ondow,     images.spacesult_rept_left_ondow,     images.spacesult_rept_left_ondow,     images.spacesult_left_left_ondow,     images.spacesult_left_left_ondow,     images.spacesult_rept_left_ondow,     images.spacesult_left_left_ondow,     images.spacesult_left_left_ondow,     images.spacesult_left_left_ondow,     images.spacesult_left_left_ondow,     images.spacesult_left_left_ondow,     images.spacesult_left_left_left_ondow,     images.spacesult_left_left_left_ondow,     images.spacesult_left_left_left_ondow,     images.spacesult_left_left_left_ondow,     images.spacesult_left_form_left_ondow,     images.spacesult_left_form_left_ondow,     images.spacesult_left_left_left_left_left_left_left_le</pre>
	<pre>PAARE JAMANO + 1     "left": [mages.spacesuit_left_shadow, images.spacesuit_left_l_shadow,     images.spacesuit_left_shadow, images.spacesuit_left_l_shadow,     images.spacesuit_rept_left_own,     images.s</pre>
	<pre>PLATE JAMON - 1     "list": [mage.spacesuit_list"_shadow, image.spacesuit_list[_ishadow,     image.spacesuit_list"_shadow, image.spacesuit_list[_ishadow,     image.spacesuit_ist"_shadow, image.spacesuit_list[_ishadow,     image.spacesuit_ist[_ishadow, image.spacesuit_list[_ishadow,     image.spacesuit_ist[_ishadow, image.spacesuit_list[_ishadow,     image.spacesuit_ist[_ishadow, image.spacesuit_list[_ishadow,     image.spacesuit_ist[_ishadow, image.spacesuit_list[_ishadow,     image.spacesuit_ist[_ishadow, image.spacesuit_list[_ishadow,     image.spacesuit_ist[_ishadow, image.spacesuit_list[_ishadow,     image.spacesuit_list[_ishadow, image.spacesuit_list[_ishadow,     image.spacesuit_list[_ishadow, image.spacesuit_list[_ishadow,     image.spacesuit_list[_ishadow, image.spacesuit_list[_ishadow,     image.spacesuit_list[_ishadow, image.spacesuit_list[_ishadow,     image.spacesuit_list[_ishadow, image.spacesuit_list[_ishadow,     image.spacesui</pre>
	<pre>PAARE JABAOW - 1     "left": [mages.spacesuit_left_shadow, images.spacesuit_left_l_shadow,     images.spacesuit_left_shadow, images.spacesuit_left_l_shadow,     images.spacesuit_rept_left_owners     'state: [mages.spacesuit_rept_lshadow, images.spacesuit_left_l_shadow,     images.spacesuit_rept_lshadow, images.spacesuit_lshall, l_shadow,     images.spacesuit_left_lshadow, images.spacesuit_lshall, l_shadow,     images.spacesuit_rept_lshadow, images.spacesuit_lshall, l_shadow,     images.spacesuit_left_lshadow, images.spacesuit_lshall, l_shadow,     images.spacesuit_lshall, langes.spacesuit_lshall, langes.space</pre>
	<pre>PAARE JABAON = {     "FirstF: [mages.spacesuit_left_shadow, images.spacesuit_left_l_shadow,     images.spacesuit_left_shadow, images.spacesuit_left_l_shadow,     images.spacesuit_left_shadow, images.spacesuit_left_l_shadow,     images.spacesuit_left_l_shadow, images.spacesuit_left_l_shadow,     images.spacesuit_left_l_shadow     images.spacesuit_left_l_shadow,     images.spacesuit_left_l_shadow     images.spacesuit_left_left_l_shadow     images.spacesuit_left_left_l_shadow     images.spacesuit_left_left_left_left_left_left_left_lef</pre>
	<pre>PATHE JAMONG + 1     "left": [mages.spacesuit_left_shadow, images.spacesuit_left_lemañow,     images.spacesuit_left_shadow, images.spacesuit_left_lemañow,     images.spacesuit_rejht_phadow, images.spacesuit_left_lemañow,     images.spacesuit_rejht_lemañow, images.spacesuit_left_lemañow,     images.spacesuit_rejht_lemañow, images.spacesuit_left_lemañow,     images.spacesuit_left_lemañow, images.spacesuit_left_lemañow,     images.spacesuit_left_lemañow, images.spacesuit_lemait_lemañow,     images.spacesuit_left_lemañow, images.spacesuit_lemait_lemait_lemañow,     images.spacesuit_left_lemait_le</pre>
	<pre>PLATE JAMON - 1     "left": [mage.spacesui_left_shadow, image.spacesuit_left_lemadow,     image.spacesuit_left_shadow, image.spacesuit_left_lemadow,     image.spacesuit_left_shadow, image.spacesuit_left_lemadow,     image.spacesuit_left_lemadow, image.spacesuit_left_lemadow,     image.spacesuit_left_lemadow, image.spacesuit_lemato_lemadow,     image.spacesuit_left_lemadow, image.spacesuit_lemat_lemadow,     image.spacesuit_left_lemadow, image.spacesuit_lemat_lemat_lemadow,     image.spacesuit_left_lematow, image.spacesuit_lemat_lematow,     image.spacesuit_lemat_lematow, image.spacesuit_lemat_lematow,     image.spacesuit_lemat_lemat_lematow,     image.spacesuit_lemat_lematow,     image.spacesuit_lemat_lematow,     image.spacesuit_lemat_lematow,     image.spacesuit_lemat_lematow,     image.spiler.fs.image.spiler_f0;     image.spiler.image.spiler_f0;     image.spiler.image.spiler_f0;     image.spiler.image.spiler_f1;     spiler_f1;     spiler_f</pre>

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[The diffection [144], J. S. Time, Files, H room 36
[The diffection [144], J. S. Time, Files, H room 36
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144		
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Tec		
146		
147	(default)	
140	0:	limaces, floor, Some, "The floor is shiny and clean" ].
149	21	limages, pillar, images, full shadow, "The wall is smooth and cold?".
	21	limages.soil, Note, "It's like a desert. Or should that be despert !" ].
161	31	(images.pillar low, images.half shadow, "The wall is emooth and cold"
172	£ :	[images.bed, images.helf_shadow, "& tody and confectable bed"],
135	51	[images.table, images.half_shadow, "In's made from shrong plastin."],
164	61	[images.chair_left, Hone, "A chair with a soft cushion"].
165	71	[images.chair_right, None, "A chair with a moft cushion"],
166		[images.bookcase_tall, images.full_shadow,
137		"Bookshalves, marked with reference books"],
155	9:	[images.bookcase_small, images.half_shadow,
		"Bookshelves, stacked with reference books" ],
160	10	[images, cabinet, images.mall_shadow,
191		"A small locker, for storing personal idems"),
		Linages.desk_computer, inages.neir shedow,
100		A computer, des 15 to run 1176 support dasperature 1,
100	5.0	(income alactrical) income balf shadow
160	40	"Electrical anatomic used for nonection the mane station").
160	34	Finance placervice12 images half shadry
146		"Electrical most and used for covering the mane station"1.
149	35	[ineges.cactus, images.cactus shadow, "Ouch! Careful on the cactus!"
	16	(images, shrub, images, shrub shadow,
		"A space lettode, A bit limp, but anabing it's growing here!").
172	17:	[images.pipes], images.pipes] shadow, "Water purification pipes"],
179	10:	[images.pipes2, images.pipes2 shadow,
179		"Fipse for the life support systems"],
175	191	[images.pipes3, images.pipes3_shadow,
176		"Fipes for the life support systems"],
177	20:	[images.door, images.door_shadow, "Salaty door. Opens sutematically
144	for ant	cronests in functioning spacesuits."],
	21:	[images.door, images.door_shadow, "The airlook door, \
	FOR Bal	lety reasons, it requires two person operation."),
	22	[inages.door, images.door_shadow, "A locked door. It meeds " \
		+ FLAYER NAME + "'s access card"],
103		. Interest door, images.coor analow, "A locest door. It meets - \
	14	Finance door trades door shador Williament door. It made th
	1.1	+ FRIENDS MEME + "'s access card"].
187	28	Linama door, imana door sharkw
188		"A lorked door. It is opened from Hain Hission Control" ].
189	26	finages.door, images.door shadow,
190		*A looked door in the engineering bay, *].
191	27:	[images.wap, images.full_shadow,
107		"The screen says the crash sits was Sector: " \
103		+ str(LANDER_SECTOR) + " // N: " + str(LANDER_X) + \
1.94		* // Yi * + str(LANDER_Y)],
1.99	28	[images.rook_large, images.rock_large_shadow,
196		"A rock. Its coarse surface feels like a whetecome", "the rock"].
437	29:	[images.rock_small, images.rock_small_shadow,
4.8.0		"A HEALT DEAL DEALY DIALE IN MARTIAN DOCK"),
	30	[inapes.oracer, Hone, "A crater in the planet surrace"],
	311	Lineyes there is being another the station
	32	- same gener welch, at helps protect the station from dust storage
20.5		"One of the extentific experiments. In wently vibrates"1."
	- 33	Finades, robot ave. Insces, robot ave shadow.
	- 201	"I cohot arm, used for heavy lifting"].
	34	finaces.toilet. images.half shadow. "A sparkling clean thilst"].
2117	35	[images.sink, line, "A sink with running water", "the teps");
208	36	linages.globe, images.globe shadow,
209		"A glant globe of the planet. It gently glows from inside"),
210	37	[images.science_lab_table, Hone,
211		"A table of experiments, enalyzing the planet soil and dust"),
212	30	[images.vending_machine, images.full_shadow,
210		"A wending machine. It requires a credit.", "the wending machine"],
219	39	[images.floor_pad, Hode,
219	10000	"A pressure sensor to make sure nobody goes out slone."],
246	40:	[images.rescue_ship, images.rescue_ship_shadow, "% rescue ship?"],
217	41	: [images.mission_control_desk, images.mission_control_desk_shadow, \
	1 332	"Blesion control stations."],
	-12	Linages.sucton, images.sutton_snadow,
220		"The buccos for opening the time-roomed door is engineering."),
222	433	The abirahoutd is used in brainsterns and planning and all
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	-12	The window provides a view out onto the planet surface at
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229	451	[images.robot2_images.robot2_shadow
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	<pre>49: [images.drone, Done, "A delivery drone"];</pre>
	50: [images.energy_ball, Wore, "An energy ball - dangerous"], 51: [images.energy ball2, Wore, "An energy ball - dangerous"],
	52: [images.computer, images.computer_stadow,
	"A computer workstation, for managing space station systems."]; 53: [images clipboard, Note.
e	"A cliphoard. Someone has doodled on it.", "the cliphoard"],
7	54) [inages.bubble gam, Mane,
ě	55) [images.yoyo, None, "A toy made of fine, strong stainy and plastic. \
	Used for antigray experiments.", FLAYER HANE + "'s yoyo"].
	"A piece of fine, string string", "a piece of string"],
	<pre>%7) [images.needle, Gone,</pre>
5	50: [images.threaded_needle, None,
6	"A cactus meedle, spearing a length of string", "meedle and string"), to, (income caning a length of string).
	"The air canister has a leak.", "a leaky air canister"),
	60) [images.conister, Nume, "It looks like the seal will hold!", "s sealed air conister"].
	61: [images.mirror, Donn,
	"The mirror throws a circle of light on the walls,", "a mirror"}, 62: [images.bin empty, Hone,
2	"A rarely used bin, made of light plastic", "a bin"],
	"A beavy bin full of water", "a bin full of water"].
	64: [images.rags, Sone,
9	651 [images.hammer, Sons,
	"A hammer, Maybe good for cracking things open", "a hammer"],
	67: [inages.food_posch, Hone,
	"A dehydrated food pouch. It meeds water.", "a dry food pack"],
0	"& food pourt. Use it to get 100% energy.", "ready-to-man food"],
6	69: [images.book, Mice, "The book has the words "Don't Panic" on the \
	701 [images.mp3_player, None,
	"An HPS player, with all the latest tunes", "an HPS player"], T1: finaces,lander, "The Pools, a small scape exploration craft. \
	Its black hos has a radio sealed inside.", "the Foodle lands:"),
	Foodle", "a compunications radio"],
	73: [images.gps_module, None, "A GES Hodule", "a GES module"],
e.	Seeds a GPS module.", "a positioning interface"],
	T3: [images.positioning_system, None,
9	76) [images.sciseors, Home, "Suissors. They're too blunt to mat \
	enything. Can you sharpen them?", "blunt ariseors"], 77: [imarus ariseors ]],
	"Resor-sharp solesors, Careful!", "sharpened solesors"],
3	"% small coin for the station's vencing systems",
4	"a station credit"],
	"This screes card belongs to " + PLAYER NAVE, "an eccess card"].
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	(4) [IAAGPA.access cord. Nume, "This access cold block to "+ FFEIND1_IAAE, "an access card", in [IAAGPA.access rand, Nume, "This access and blocking to "+ FFEIND1_IAAC, "an access and acd"] "This a player may carry = list(range(S, 42)) # Numers balow are for line, pressure pad, and, toxic floor. "This player may time, "n = item player may carry + [0, 33, 2, 41] """"""""""""""""""""""""""""""""""""
<ol> <li>○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○</li></ol>	<pre>60. [Images.access cord, Huno, "This access Cord biologs to "+ FFILMD1_HARE, "an soccess cord", Chi [Images.access_cord, Huno, "This access cord biologs to "+ FFILMD1_HARE, "an access cord/"] "This access cord biologs to "+ FFILMD1_HARE, "an access cord"] "This access cord biology to "+ FFILMD1_HARE, "an access cord"] "Humo_Filey may_cord; = list(range(S5, 62)) Humo_Filey may_cord; = * itemplays_may_carry + [0, 30, 2, 40] """""""""""""""""""""""""""""""""</pre>
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	<pre>60. [Images.scores.cord. Nume, "This access Cord. Show, "This access Cord. Show, "This access Cord Shows, '+ FRIENDLJGARE, 'an access cord', "This access Cord Shows, '- FRIENDLJGARE, 'an access cord', "Boostray descripts of Floor, pressure pad, sul, coxic floor, this control for "Sourcey descripts of Floor, pressure, page, may_carry + [0, 30, 2, 40] "Sourcey descripts of floor, that cannot move between Floors. "sourcey descripts of floor, page, pag</pre>
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# booksmart = { for Young Young List [: secondy Lists]; for answery story List [: secondy Lists]; for the second story is a second story is second st

Look map(maxis) = 100 + 1/10/ = 1/00 = 0/00 if room data[3]: # If east at copy of this room room map(0) (middle\_column + float type room map(0) (middle\_column + 1) = float type room\_map(0) =

## toom\_map(v)[httout\_column - i) = /loss\_toom\_map(v)[httout\_column] [6] Gurrent\_column - GAU\_IIII = MAP\_VIUTH: { 6 f rese is not so bottom fow room\_below = GAU\_IIIA\*(current\_constAU\_VIUTH; { 6 f f cost below has a top with, add with x to horton of this not if toom\_below[3]) room\_map(room\_below]= [httoutle\_column] = flow\_type room\_map(room\_below=1)[nutle\_column - 1] = flow\_type

ii current\_toom\_in\_scenery( for the scenery(current\_toom) scenery\_insher = the scenery(current\_toom) scenery\_i = this\_scenery(i) scenery\_i = this\_scenery(i) room\_scelexesry\_i()(scenery\_is) = scenery\_number

image\_bere = objects[scenery\_number][0] image\_width = image\_here.get\_width() image\_width in\_tiles = int(image\_width / TILE\_SIZE)

tile\_number in range(1, image width in tiles); room\_map[scenery\_y](scenery\_x + tile\_sumber) = 255

1220	and the second sec
467	center y = int(MIDTM ( 2)
663	your pipel width - non width + THE SIZE & Size of your in nivels
160	room pixel height = room height + TILE SISE
365	top left x = center x - 0.5 * room pixel width
604	top left y = (center y - 0.5 * room pimel height) + 110
947	te de la constante de la const
960	fat prop_number, prop_info im prope_items();
569	[0]ofni_qorg = moo_lofn
970	prop_y = prop_info[1]
571	prop_x = prop_infe[2]
372	if [prop room == current room and
374	room mapiprop vilprop al 10 [0, 03, 4]11
470	image here = objects[prop_number][0]
47.6	image width = image here.get width[]
477	image_width in tiles = int(image_width / TILE_SITE)
470	for tile_number in range(1, image_width_in_tiles);
\$7.9	room_map[prop_y](prop_m + tile_number) = 355
.980	
	nepero_map = 1/ # empty list
483	harard pap, appendi [0] * room width ]
404	second metropy (a) room range
100	
66.0	************
417	** GAME LOOF **
300	
400	Set start toom () i
491	signal attinct door frame
002	show test ("You are here: " + room name, 0)
593	if current_room -= 36: # Room with self-shutting mirlock door
194	airlook door frame = 0
199	<pre>olook.schedule_interval(door_in_rocm_26, 0.05)</pre>
93.0	hexard_start()
537	out over locally
800	divisi player a, player y, margen som
500	global from player a, from player v
304	global player image, player image shadow
302	glunal selected item, item carrying, energy
500	global player_offset_x, player_offset_y
504	global player frame, player direction
506	
206	te game over:
nnn.	
	I player frame > 00
510	player frame +* 1
511	time.sleep(0.05)
312	11 player_frame == 5:
513	player_frame = 0
019	player_offset_x = 0
310	braker_orrace_A = a
317	frame player's current position
510	old player x = player x
519	old player y = player y
521	# move if key is pressed
521	<pre># move if key is pressed if player_frame == 0;</pre>
521 522 523	<pre># move if Key is pressed</pre>
\$21 \$22 523 524 \$25	<pre># more if key is greated if payer_frame = 0:     if keyboard.right:     from_player_s = player_s     from_player_s = player_s </pre>
521 523 524 525 536	<pre>1 more if key is present if player (raws == 0) if keyboard: night:     fong_player_s = player_s     fong_player_y = player_y     player_y = 1</pre>
821 823 823 824 826 826 827	<pre># nore if key is present if player_trans == 0; respond: right= layer_t resplayer_t == layer_t player_t == - player_t == - player_t == - </pre>
521 523 524 525 526 526 527 520	<pre># nove if key is presend IF Days; trans == 0 # resplaying == playing = from_playing == playing = from_playing == playing = playing direction = "signer" playing fame = 1</pre>
521 523 524 525 526 526 527 520 520	<pre># nove if key is presend if Diver, trace == 0;</pre>
521 523 524 525 536 507 528 529 529 529	<pre>f norm if we is presend if falver_trans == 0 if falver_trans == 10per_s f com_player_y == 10per_y f bayer_y == 10per_y f bayer_y == 10per_s f bayer_trans == 10per f bayer_trans == 10per f com_player_s == 10per_s</pre>
521 523 524 525 526 527 528 529 529 529 529 529 529	<pre># nove if key is presend if Diver, trace == 0;</pre>
821 820 323 524 525 526 507 529 529 530 530 531 530 531	<pre>f norm if we is present if faiver_track == 0; if we phonent in the start of the start for a start of the start of the start of the start for a start of the start of the start of the start of the start for player_s = interim for player_s = interim for player_s = interim the start of the start of the start of the start of the start for player_s = interim the start of the start</pre>
821 820 823 824 825 836 817 820 820 820 820 820 820 820 820 820 820	<pre># nove if key is presend if folyer_trans == 0 if keyboard.ingut: formplayer_s = player_s player_trans_ player_trans_ player_trans_ formplayer_s = player formplayer_s = player_s formplayer_s = player_s player_trans = 1 player_trans_ player_trans_ player_trans_</pre>
821 822 823 824 825 826 827 828 828 829 829 829 820 830 831 832 833 834 833	<pre>1 norm if we is present if falver_tracks == 0 if kerptontinger = laver_s for applying y = laver_y player_x == 1 player_tracks == laver_y else the hydroxistic feilf stop player making diagonal normanization form_player_y = laver_y form_player_y = laver_y player_tracks == 1 player_tracks == 1 player_tracks == 1 player_tracks == 1 player_tracks == 1</pre>
521 523 524 525 526 529 529 529 529 530 531 532 534 535 534 535	<pre># nove if key is presend if folyer_track == 0 if keyboard.ingut: form_layer_x = player_x form_layer_x = player_y form_track == n player_track == 1 else form.set = 1 else form_layer_x = player_x form_player_x = player_y form_player_x = player_y form_player_x = player_y player_track = 1 else form_layer_y player_track = 1 else form_layer_y player_track = 1 else form_layer_x = player_x form_player_x = player_x form_layer_x = player_x form_layer_x = player_x</pre>
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8211 8222 8244 8255 8256 8250 8250 8250 8250 8250 8250 8250 8250	<pre># nove if key is presend if Reptace</pre>
811 822 828 829 800 820 820 820 820 820 820 820 820 820	<pre># nove if key is general If falver_tracks == 0 here_s f keyDoalt.input player_x == 1 here_s player_x == 1 player_tracks == here_s form_player_x == 1 here_s form_player_x == here_s form_player_x == here_s form_player_x == here_s form_player_x == here_s player_tracks == i here_s = i here_s == i here_s</pre>
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821233 82255 8226 8226	<pre>imme If key is presend if Reptackington if Reptacking the room if Reptacking</pre>
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811 2023 2020 2020 2020 2020 2020 2020 20	<pre>immed the prime is a prime is prime is a prime is a prime is prime is a prime is a</pre>
811 2023 2045 8070 8020 8071 2000 4458 4000 8000 8000 8000 8000 8000 8	<pre># nove if key is presend If favor_track == 0; for a privative == liver_s for a privative == liver_s a decet for a still of the room privative == liver_s privative == liver_s == liver_s a decet for a still of the room a decet_room == liver_s privative = liver_s == liver_s a decet_room == liver_s privative == liver_s == liver_s a decet_room == liver_s a decet_room == liver_s privative == liver_s == liver_s a decet_room == liver_s privative == liver_s == liver_</pre>
11113345867002901000000000000000000000000000000000	<pre># nove if key is general if folyer_trans == 0 if keytoant.type: resplayer_y == layer_y resplayer_y == layer_y player_trans == layer_transsec_tran</pre>
1103324488700310303488487049400110308950848700400010000000000000000000000000000	<pre># nove if key is general If fayer_rease == 0 # RefDendinger == layer_s # refDendinger # refDending # refDendinger # refDending # refDendinger # refDend</pre>
1112334287000000000000000000000000000000000000	<pre>imme if key is presend If flows: from = 3: for an plowery = livery: for an plower = livery: plower = livery: for an plower = livery: for an plower = livery: plower = livery: for an plower = livery: plower = livery: for an plower = livery: plower = livery: for an plower = livery: for an plower = livery: plower = livery: for an plower = livery:</pre>
11033000000000000000000000000000000000	<pre>immed they is presend if floyr_trace == 0; if keytoast.type;</pre>
11103 52245 5000 5225 5000 5225 5000 5225 5000 5225 5000 5200 500000 50000 50000 50000 50000 50000 5000 50000 5000000	<pre>immed they is presend if liver_trans of if low_trans.com i</pre>
11033 1203 1203 1204 1000	<pre># nove if key is presend if Reptackingter = layer_s</pre>
110345870980112094884998999444098948470490112098558070990414898	<pre>immed they is presend if layer_trans = = improve for Applyong = = improve for Applyong = = improve for Applyong = = improve for Applyong is = improve is = improve for Applyong is = improve is a improve is a improve for Applyong is = improve is a improve is a improve for Applyong is = improve is a improve is a improve is a improve for Applyong is = improve is a improve is a improve is a improve for Applyong is = improve is a i</pre>
11023407000010000000000000000000000000000000	<pre>immed they is presend if floyr_trace == 0; if keytoast.type: remains the present and the present remains the present and the present player_trace == 1; player_trace == 0; player_trace == 0; player_tra</pre>
110334570090000000000000000000000000000000000	<pre># nove if key is presend If Reference == 0 # Referen</pre>
	<pre>immed they is presend If flying: (takes = -0) if the players, = layers, from players, = layers, from players, = layers, flying: (takes = -0) if the players, = layers, from players, = layers, players, from = layers, players, from = layers, players, from = layers, players, = layers, from = layers, players, = layers, from = layers, players, = layers, = layers, = layers, players, from = layers, = layer</pre>
11034458770990015109445847999584467994001100955877099011009458470940	<pre>immed they is presend if indiver_trace = - 0; if keyDapin_trace = - liver_s     for player_k = - 1;     player_k = - 1;</pre>
110344567098013094584898999444999894947894981847999818479999941439866684708401414586684847084014145866848470840144586684847084014458668484708401445866848470840144586684847084014458668484708401445866848470840144586684847084014458668484848484848484848484848484848484	<pre>immed they is presend If flying: (they is a privery = livery: from privery: from privery</pre>
	<pre>immed they is presend if for they is presend if for a provide the second start of the second start of</pre>
1112244535555555555555555555555555555555	<pre># norm if key is presend If flyer_trans == norm_s for main playery = = lower_s for main playery = = lower_s for main playery = = lower_s for main player, = lower_s for main player_s = lower_s for main player_s for main playe</pre>
1112344530500000000000000000000000000000000	<pre># nove if key is general If RepContinger = layer_=</pre>
A LO A AND A DO AND A	<pre># none if key is presend If Reference = 0 # Reference = 0 # Reference = none = support</pre>
	<pre># norm if key is presed If Norm (is presed) If Norm playery = layery from playery from playery from playery from playery from playery from playery fr</pre>
日本部の市であるためのでは、11日の多米加速でのの多利は、11日の中国は「大学の中国は、11日の日日日、11日の日、11日日、11日の日、11日の日、11日の日、11日の日、11日日、11日日、11日日、11日日、11日日、11日日、11日日、11日日の日、11日日	<pre># nove if key is presend If Reference == 0 # Referen</pre>



# if objects(item, here)[i] is not thus: 4 If object has a shadow shadow\_image = objects(item\_incet)[i] 4 if shadow\_image is and is a shadow if the shadow\_image is and is a shadow if the shadow\_image is a shadow (if item) is a shadow if the shadow\_image, y, s+s) they is a shadow (shadow\_image, y, s+s) class cloc) drav\_shadow(sbadow\_image, y, x) harard\_bers = harard\_maply][x] 11 harard\_here [= 0: f If there's a harard at this position draw\_Iwage(objects[hazard\_here][0], y, s) if (player\_y == y): draw\_player()

screen.surface.set\_clip(None)

# djust\_wall\_transparency(): globel\_wall\_transparency\_frame

12 (player y == room height - 2 and room megizons beight - 31[player s] == 1 and well irrangementy frame 4 0: voll\_transparency frame += 1 \$ Fade vall out;

# 1f (|player\_y < room\_height = 2 cs reom\_map[room\_height = 1][player\_w] = 1] and wall transparency trans > 0): well\_transparency\_frame -= 1 # Fade vell in.

show\_test(text\_to\_show, line\_number):
 if game\_over:

# (1 gen\_error stude treplices = [15, 50] box = her((0, text\_stribus, Elect)), [800, 35]) error-the(filter\_then, Elect), street.drsv(strimet\_thene, (20, text\_lines[line\_number]), color=REED)

11 PROPS 22

# in my\_pockets = [55] selected\_item = 0 4 the first item item\_carrying = in\_my\_pockets[selected\_item]

c hackers = 0
t hackers = 1
t hackers =

# · PROF INTERACTIONS

def find\_object\_start\_w(): checker\_w = player\_w while room\_mep[player\_w][checker\_w] == 255: Checker\_w = trenum.objecker\_w

return item\_linkyr\_in\_on
fict\_0\_0\_00fstlink
pict\_0\_0\_00fstlink
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displet(interview) and ready takes y i additional additional temperature displetion additional additional additional interview additional additional additional fillume and because interview a fillume and because interview a fillume and because interview a fillume additional additional additional displetional (i) + o f Carried dispects go into rook 0 (off the map).

start\_display = |selected\_ites // 16) \* 16 iss\_to\_show = in\_my\_pockets[start\_display : start\_display + 16] selected\_marker = selected\_ites % 16

# fir item\_counter in range(len(list\_to\_show())) item\_number = list\_to\_show(item\_counter) inage = object(list\_m\_number([0]) screen.blit(inage, [25 + (46 \* item\_counter), 50))

# Sofem Hilling and the set of the

IN CSE GEJECTS // glands is my pockets, suit\_wittend, starinted, ges\_ever use message = "Von Tiddin andow with it has don't gest anywhere." "A star is a set and the set of the set of the set of the set of the "Tids is so these os at anywhere." "I the set of the set of the set of the set of the "Tids is so these os at anywhere." "I the set of the set of the set of the "Tids is not the os at a count". "I the set of the set of the set of the "Tids is not the os at a count". "I the set of the set of the set of the "Tids is not the os at a count". "I the set of the set of the set of the set of the "Tids is not the set of the set of the set of the set of the "Tids is not the set of the set of the set of the set of the "Tids is not the set of the "Tid "Tide the the set. Tide the set of the set of the set of the set of the "Tide "Tide" the set of the set o 5 # Get object musker at player's location. Item\_player\_is\_ne ~ ext\_item\_under\_player() for this\_item in [item\_player\_is\_on.item\_corrying]: if this\_item is standard\_responses; us\_possage = atcalercy\_responses(this\_item] if item\_serving == T0 == item\_player is on == T0: use message = "Samging tames!" sounds.steelmusic.play(2) elif item\_ostrying -= 60 (E item\_player\_is\_on -= 60)
use\_maxage = "Top its " + objects[60][3] + \* in the suit"
all = \*0
all = \*0
all = \*0
all = object(60)

dif (ise carrying - 30 or item\_player\_is\_co - 30) \
 and sor main partoched;
 use Ressage - "iou use "+ objects[56[13] + \
 suis ritched - True
 remore\_object(56)

#10 icem\_carrying == 72 is item\_player\_is\_on == 72: use\_message = "Too radio for help. A rescue ship is coming. \ concervous Roccor 13, outside." prope[40][0] = 13 
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time.sleep(0.5) launch\_frame += 1 if lainch\_frame < 3; draw\_factor(inper.verum\_ship, 3 = launch\_frame, 4) draw\_factor(inper.verum\_ship\_shistor, 1 = launch\_frame, c) clort.schedils(gins.corpleting\_segence, 0.28) draw\_factor(inper.verum\_ship) cient sorces.surface.cet\_olip(Wine) strees.drew.text[HISIDIF, [200, 380), color = "waiss", forise.drew.text[COMBULT!", [145, 460), color = "waiss", strees.drew.text[COMBULT!", [145, 460), color = "waiss", forise.drew.text[Soldwidt], [14, 10], sollor = "waiss", sounds.org]tilon.phy() sounds.surglising.complete.play() 1006 1007 1008 1089 40 D0083 40 1050

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if mir > 0: box = Beot(150, 765), (mir, 20)) screen.draw.filled\_reot(box, BLUE) f Draw new mir bar.

if energy > 0: box = Rect([230, 763], (energy, 20]) screen.draw.filled\_rect(box, YELLOW) # Draw new energy bar.

1200 sounds.say.kir\_low.play()
1211 if as = 30:
1212 sounds.say.et, now.play()
1212 sounds.say.et, now.play()
1213 if alf < 1;
1214 sounds.say.et, now.play()
1215 sounds.say.et, now.play()
1217 sounds.say.et, now.play()
1218 sounds.say.et, now.play()
1219 sounds.say.play(sounds.say.et, now.play()
1211 sounds.say.play()
1211</pre> status.acy\_betweet.play()

status\_acy\_betweet.play()

status\_acy\_betwe # Stop when hassed hirs soesery or acorber harard. If toom map[hasard]y[harard]s] man in items player way\_stand\_on \ On harard\_map[harard\_y][harard\_y] = 0: harard\_mnould\_bumme = True 15 Marard should bounce! basaid y = old harard y i Move back to last valid position. basaid x = old harard y i basaid sizetion >= 4 if harard direction >= 4 if harard direction <= i harard() == basaid direction \*\* START \*\* postate sap() clock-addedie\_interval(game\_loop, 0.03) clock-addedie\_interval(adjuar\_val)transparency, 0.03) clock-addedie\_interval(adjuar\_val)tresnotry, 1) clock-addedie\_interval(adjuar\_val) clock-addedie\_interval(adjuar) clock-addedie\_interval(adjuar) clock-addedie\_interval(adjuar) clock-addedie\_interval(adjuar) clock-addedie\_interval(adjuar) clock-addedie\_interval(adjuar) clock-addedie\_interval(adjuar)