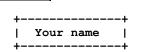
Honors Computer Programming - Java Chapter 1 Programming Problems

Directions for each program: Make sure you give your program an appropriate name and format it so that it is readable. Your name and program title need to appear within a commented area at the top of the program.

program 1 Name program Write a program that displays your name inside a box on the console screen, like this:



```
program 2
```

Face program Write a program that prints a face, using text characters, hopefully better looking than this one:

Use comments to indicate when you print the hair, ears, mouth, and so on.

program 3 Christmas Tree program Write a program that prints a Christmas tree:



Remember to use escape sequences to print the \ and " characters.

program 4 Sum Integers program Write a program that computes the sum of the first ten positive integers, $1 + 2 + \dots + 10$ hint: Write the program in the form:

```
public class Classname
{
    public static void main(String[ ] args)
    {
        System.out.println( · · · · );
    }
}
```

program 5Sum Reciprocals programWrite a program that computes the sum of the reciprocals 1/1 + 1/2 + 1/3 + ... + 1/10.
This is harder than it sounds. Try writing the program, and check the result. The
program's result isn't likely to be correct. Then write the numbers as floating-point numbers, 1.0, 2.0, ... 10.0, and run
the program again. Can you explain the difference in the results? We will explore this phenomenon in Chapter 3.