CSC 230-01 Modern Prog Applications Spring 2018

Assignment 2

What to hand in

Create a folder called "Assignment_2". Inside the folder, create a folder for each program and deposit the source code to the corresponding folder. Use packing software to pack "Assignment_2" to a packed file, such as "Assignment_2.zip" or "Assignment_2.tar". Submit the packed file through the blackboard.

Due Date

12:00 midnight, Feb. 9, 2018.

Program 1: Complete the following code

```
1. import java.util.Scanner;
2.
3. public class Tri
4. {
5.      // define variable x
6.      int x;
7.
8.      // define Scanner object
9.      Scanner s = new Scanner(System.in);
10.
11.          // read an integer number
12.          x = s.nextInt();
13.
14.          // define variable y to save the result
15.          int y;
16.
17.          // y = x^3 + x^2 + x + 7
18.          // add your code
19.
20.          System.out.println(y);
```

```
21.    }
```

Program 2: Complete the following code

```
1. ort java.util.Scanner
2.
3. public class Area
4. {
5.      public static void main(String args[])
6.      {
7.           float radius;
8.           Scanner s = new Scanner(System.in);
9.
10.               radius = s.nextFloat();//input 3.5
11.
12.               // calculate circumference of a circle
13.               float cirum;
14.               // use Math.PI
15.               // cirum = 2*pi*r
16.               // add your code
17.
18.               // calculate area of the circle
19.               float area;
20.               // area = pi*r*r
21.               // add your code
22.
23.               System.out.println("Circumference: %f;
   Area: %f\n", cirum, area);
24.          }
25.     }
```

Program 3: Write a Java program to print out the following table

number square cube

1 1 1

2 4 8

3 9 27
4 16 64

Grading Criteria

1. 40%, be able to be compiled without compile errors.
2. 30%, be able to run and generate the expected outputs.
3. 20%, comments.