



CSE231 Advanced Computer Programming

Lab 1

1) For each of the following geometric shapes, write a program that computes and prints both its area and perimeter:

- a) A rectangle with width and height of 4 and 5.5 respectively
- b) A square whose side equals 10
- c) A circle whose radius equals 3.2

Use floating-point numbers for all computations.

2) What is the exact output of the following program?

```
public class ContinueTest {
    public static void main(String[] args) {
        for(int i=0;i<10;i++){
            if (i%2 == 0)
                continue;
            System.out.println(i+ " " + i * i);
        }
    }
}
```

3) What if in the problem above **continue** is replaced by **break**?

4) Using nested loops, write a program that prints the character '*' repeatedly forming the triangular shape shown below.

```
*
* *
* * *
* * * *
* * * * *
```

5) Write a method that computes and returns the sum of an array of integers.