Homework 3

- Finish the for loops lab
- Read the rest of Chapter 2
- Self -Check problems: 1-8
- Watch youtube video: https://www.youtube.com/watch?v=ZcTgmKtvSQ4

```
1. Complete the code for the following for loop:
for (int i = 1; i <= 6; i++) {
 // your code here
so that it prints the following numbers, one per line:
-4
14
32
50
68
86
2. What is the output of the following oddStuff method?
public static void oddStuff() {
  int number = 4;
  for (int count = 1; count <= number; count++) {
    System.out.println(number);
    number = number / 2;
  }
}
3. What is the output of the following loop?
int total = 25;
for (int number = 1; number <= (total / 2); number++) {
  total = total - number;
  System.out.println(total + " " + number);
}
4. What is the output of the following loop?
System.out.println("+---+");
for (int i = 1; i <= 3; i++) {
  System.out.println("\\ /");
  System.out.println("/\\");
System.out.println("+---+");
```

```
5. What is the output of the following loop?
for (int i = 1; i \le 3; i++)
  System.out.println("How many lines");
System.out.println("are printed?");
6. What is the output of the following loop?
System.out.print("T-minus");
System.out.print(i + ", ");
System.out.println("Blastoff!");
7. Suppose that you are trying to write a program that produces the following output:
1 3 5 7 9 11 13 15 17 19 21
1357911
The following program is an attempt at a solution, but it contains four major errors. Identify them all.
1 public class BadNews {
2 public static final int MAX_ODD = 21;
4 public static void writeOdds() {
5 // print each odd number
6  for (int count = 1; count <= (MAX_ODD _ 2); count++) {</pre>
7
     System.out.print(count + " ");
8
     count = count + 2;
9 }
10
11 // print the last odd number
12 System.out.print(count + 2);
13 }
14
15 public static void main(String[] args) {
16 // write all odds up to 21
17 writeOdds();
18
19 // now, write all odds up to 11
20 MAX_ODD = 11;
21 writeOdds();
22 }
23 }
```

8. What is the output of the following unknown method?

```
1 public class Strange {
   public static final int MAX = 5;
3
4 public static void unknown() {
5
   int number = 0;
6
7
     for (int count = MAX; count >= 1; count——) {
        number += (count * count);
8
9
     }
10
11 System.out.println("The result is: " + number);
12 }
13
14 public static void main(String[] args) {
      unknown();
15
16 }
17 }
```