

Lab 6

Loops and Iterations

Objectives of this Lab:

1. Learn about using loops as another way to control the execution flow of a program,
2. Understand for, while, and do-while loops, and
3. Write simple examples of all three types of loops.

Practice Loops

WITHOUT RUNNING THIS CODE, answer the following questions on a piece of paper and turn in to your TA.

Question 1) What does the following loop output?

```
for(int i = 5; i < 30; i+=5)
    System.out.println(i);
```

Question 2) What does the following loop output?

```
int j = 0;
while (j <= 8) {
    System.out.println(++j); // pre-increment operator!
}
```

Question 3) What does the following loop output?

```
for (int k = 7; k >= 0; k--);
    System.out.println(k); // are you sure?
```

Question 4) What does the following loop output?

```
for (int l = 0; l > 0; l++)
    System.out.println(l);
```

Question 5) What does the following loop output?

```
int m = 0;
do {
    System.out.println(m--); // post-increment operator
}while (m > 0);
```

Your teaching assistant will discuss the output of each of the loops.

zyLabs

Open up zyLabs and follow along with your TA in [Lab 6 - Mad Lib](#). They will explain the lab as they demonstrate and go through it. You should follow along. You will submit this part of zyLabs.

After the demo is completed, you will complete another one on your own. [Lab 6 - Counting down to matching digits](#).