

CSE 215: Programming Language II Lab

Sec – 8, Faculty - MUO

Lab Officer: Tanzina Tazreen

Lab - 2

Conditional Statements, Loops

Objective:

To learn different kinds loops

- for
- while
- do-while

Loops allow us to perform repetitive tasks within a few blocks of code instead of doing them manually (e.g. copy pasting).

In Java, there are mainly three types of loops:

- a. for loop
- b. while loop
- c. do...while loop

Anything that can be done using a for loop, can also be done using a while loop

Nested loops:

Nested loops are simply loop within a loop.

However, the more loops you have within a nested loop, the more computationally expensive it becomes.

```
Syntax: Nested for loop
for (int i = 1; i <=5; i++) {
   // outer loop body
for (int j = 1; j <=5; j++) {
   // inner loop body
}

// outer loop body
}</pre>
// outer while loop body
}
```

Task:

- **1.** Write a program that takes an integer (say, n) and your name as inputs, and then prints your name n times to the console.
- 2. Write a program that prints the following patterns:

- **3.** Write a program that takes an integer and prints its divisors, i.e. divisors of 12 are 1, 2, 3, 4, 6.
- 4. Write a program which will use while loop to print all the integers between 100 and 150 which

are divisible by 8 in descending order.

Output: 144 136 128 120 112 104