



Lab (5)

Week 7

1. Draw a flowchart and write a Java program to output the **maximum** of 4 marks for a student.

- Update the program to read **N marks** for a student instead of constant number 4.
- Update the program to handle **3 Students** instead of 1 student.
- Update the program to handle **M Students** instead of constant number 3.

2. Trace the following code and show the output:

```
a) int rows = 5;
   for (int i = rows; i > 0; i--) {
       for (int s = 1; s < i; s++) {
           System.out.print(" ");
       }
       for (int j = rows; j >= i; j--) {
           System.out.print("*");
       }
       System.out.println();
   }

b) int weeks = 3;
   int days = 7;
   // outer loop
   for(int i = 1; i <= weeks; ++i) {
       System.out.println("Week: " + i);
       // inner loop
       for(int j = 1; j <= days; ++j) {
           // continue inside the inner loop
           if(j % 2 == 0) {
               System.out.println(" Days: " + j);
           }
       }
   }
```

- Write a program to compute the factorial of 4 numbers to be input by the user.
- Write a program to compute the multiplication of N numbers to be input by the user.