### **PROGRAMMING IN JAVA LAB-8**

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Batch-AIML A1

Part 1: Write a Java Program to find the factorial of 'n' integers (as command line arguments CLA). Write your own exception "MyExcep" to validate integer values to be in certain range.

#### Part 2:

Define an exception class called "NOMATCHEXCP" that is thrown when the string from keyboard is not equal to "India". Write a Demo program using try-catch block that shows the use of this user-defined exception. class NOMATCHEXCP should have a parameterized constructor and the exception message generated should show the line number and the erroneous String that was inputted by the user.

//

# PART1:

```
class MyExcep extends Exception {
    public MyExcep(String message) {
        super(message);
    }
}

public class Factorial {
    public static void main(String[] args) {
        int n;
        for(int i=0;i<args.length;i++) {
            try {
               int fact = 1;
               n = Integer.parseInt(args[i]);

            if (n < 0 || n > 15) {
                  throw new MyExcep("Invalid input! Integer must be between 0 and 15.");
        }

        for (int j = 1; j <= n; j++) {
            fact *= j;
        }
}</pre>
```

### **OUTPUT:**

```
C:\Users\nayye\OneDrive\Desktop\JAVA>java Factorial 8 -6 abcd 5 20
Factorial of 8 is: 40320
Invalid input! Integer must be between 0 and 15.
Invalid input! Please enter an integer value.
Factorial of 5 is: 120
Invalid input! Integer must be between 0 and 15.
```

### PART2

# **OUTPUT:**

```
Enter a string: Audorsh

Error: Line 1: "Aadarsh" is not equal to "India"

Process finished with exit code 0
```

```
Enter a string: India
Input string is equal to "India"
Process finished with exit code 0
```

GITHUB: https://github.com/adityasable22/pij-ass-8.git