PROGRAMMING IN JAVA LAB-8

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//
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```

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.

//

PART-1:

}

OUTPUT:

```
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.
```

PART-2:

```
import java.util.Scanner;

class NOMATCHEXCP extends Exception {
  public NOMATCHEXCP(int line, String input) {
    super("Error: Line " + line + ": \"" + input + "\" is not equal to
    \"India\"");
}

public class Demo {
  public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in); String input;
    int line = 0;

    try {
        System.out.print("Enter a string: "); input = scanner.nextLine();
        line++;

    if (!input.equals("India")) {
        throw new NOMATCHEXCP(line, input);
    }

    System.out.println("Input string is equal to \"India\""); } catch
    (NOMATCHEXCP e) {
        System.err.println(e.getMessage()); }
    }
}
```

OUTPUT:

```
/Library/Java/JavaVirtualMachines/amazon-corretto-11.jdk/Co
Enter a string: Hello
Error: Line 1: "Hello" is not equal to "India"

Process finished with exit code 0

on Control

▶ Run

□ TODO

● Problems

□ Terminal

● Services

▲ Bu
npleted successfully in 2 sec, 876 ms (moments ago)
```

/Library/Java/JavaVirtualMachines/amazon-corret

Enter a string: India

Input string is equal to "India"

Process finished with exit code 0