Assignment_8

Part - 1

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

  public class As8_part1 {
    public static void main(String[] args) {

        for (String arg : args) {
            try {
          int n = Integer.parseInt(arg);
          if (n < 1 || n > 10) {
            throw new MyExcep("Value out of range (1 to 10) for " + n);
          }
          System.out.println("Factorial of " + n + " is " + factorial(n));
        } catch (NumberFormatException e) {
            System.out.println("Invalid input: " + e.getMessage());
          } catch (MyExcep e) {
            System.out.println(e.getMessage());
          }
        }

    }

    private static int factorial(int n) {
      int result = 1;
      for (int i = 1; i <= n; i++) {
        result *= i;
      }
      return result;
    }
  }
```

```
PS C:\Users\erapo\Desktop\Java projects>  c:; cd 'c:\Us
ers\erapo\Desktop\Java projects'; & 'C:\Users\erapo\App
Data\Local\Programs\Eclipse Adoptium\jdk-17.0.5.8-hotsp
ot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessag
es' '-cp' 'C:\Users\erapo\AppData\Roaming\Code\User\wor
kspaceStorage\cb1420810f38ca5841a24d24c4e397c8\redhat.j
ava\jdt_ws\Java projects_a4f80daa\bin' 'As8_part1' 8 -6
 abc 5 20
Factorial of 8 is 40320
Value out of range (1 to 10) for -6
Invalid input: For input string: "abc"
Factorial of 5 is 120
Value out of range (1 to 10) for 20
```

Part 2

```java
import java.util.Scanner;

public class As8_part2 {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        try {
            System.out.print("Enter a string: ");
            String input = scanner.nextLine();
            if (!input.equals("India")) {
                throw new NOMATCHEXCP(8, input); // assuming this line number is where the user input is taken
            }
            System.out.println("Input string matches \"India\"");
        } catch (NOMATCHEXCP e) {
            System.out.println(e.getMessage());
        }
    }
}

class NOMATCHEXCP extends Exception {
  NOMATCHEXCP(int line, String input) {
    super("Error on line " + line + ": Input string \"" + input + "\" does not match \"India\"");
  }
}
```

```
PS C:\Users\erapo\Desktop\Java projects>  c:; cd 'c:\Us
ers\erapo\Desktop\Java projects'; & 'C:\Users\erapo\App
Data\Local\Programs\Eclipse Adoptium\jdk-17.0.5.8-hotsp
ot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessag
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kspaceStorage\cb1420810f38ca5841a24d24c4e397c8\redhat.j
ava\jdt_ws\Java projects_a4f80daa\bin' 'As8_part2'
Enter a string: India
Input string matches "India"
PS C:\Users\erapo\Desktop\Java projects>  c:; cd 'c:\Us
ers\erapo\Desktop\Java projects'; & 'C:\Users\erapo\App
Data\Local\Programs\Eclipse Adoptium\jdk-17.0.5.8-hotsp
ot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessag
es' '-cp' 'C:\Users\erapo\AppData\Roaming\Code\User\wor
kspaceStorage\cb1420810f38ca5841a24d24c4e397c8\redhat.j
ava\jdt_ws\Java projects_a4f80daa\bin' 'As8_part2'
Enter a string: not India
Error on line 8: Input string "not India" does not matc
h "India"
```

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https://github.com/erApoorvGupta/SIT_java_assignment_codes/tree/main/Assignment_8

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