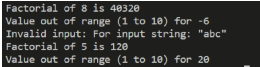
Name-Arjun Tyagi

Prn-21070126020

**Part1-**/\*  
Name: Arjun Tyagi  
Prn: 21070126013  
Part 1:  
  
\*/  
package Com.College;  
// custom exception class that extends the Exception class  
import java.util.\*;  
class MyExcep extends Exception {  
 MyExcep(String message) {  
 super(message);  
 }  
}  
// main class  
public class Assignment\_8\_Part\_1 {  
 public static void main(String[] args) {  
// iterate through the command line arguments provided  
 for (String arg : args) {  
 try {  
// convert the argument to an integer  
 int n = Integer.*parseInt*(arg);  
// if the argument is out of range, throw a custom exception  
 if (n < 1 || n > 10) {  
 throw new MyExcep("Value out of range (1 to 10) for " + n);  
 }  
// print the factorial of the argument if it is within the range  
 System.*out*.println("Factorial of " + n + " is " + *factorial*(n));  
 } catch (NumberFormatException e) {  
// handle the case where the argument cannot be parsed as an integer  
 System.*out*.println("Invalid input: " + e.getMessage());  
 } catch (MyExcep e) {  
// handle the custom exception thrown when the argument is out of range  
 System.*out*.println(e.getMessage());  
 }  
 }  
 }  
 // helper function to compute the factorial of a number  
 private static int factorial(int n) {  
 int result = 1;  
 for (int i = 1; i <= n; i++) {  
 result \*= i;  
 }  
 return result;  
 }  
}

**Output-**

**Part2-**/\*  
Name: Arjun tyagi  
Prn: 21070126020  
part2  
  
\*/  
// package declaration  
package Com.College;  
import java.util.Scanner;  
// main class  
public class Assignment\_8\_Part\_2 {  
 public static void main(String[] args) {  
// create a Scanner object to read user input from the console  
 Scanner scanner = new Scanner(System.*in*);  
 try {  
// prompt the user to enter a string  
 System.*out*.print("Enter a string: ");  
 String input = scanner.nextLine();  
// check if the input string is equal to "India", throw a custom exception otherwise  
 if (!input.equals("India")) {  
 throw new NOMATCHEXCP(8, input); // assuming this line number is where the user input  
 is taken  
 }  
// print a message if the input string matches "India"  
 System.*out*.println("Input string matches \"India\"");  
 } catch (NOMATCHEXCP e) {  
// handle the custom exception thrown when the input string does not match "India"  
 System.*out*.println(e.getMessage());  
 }  
 }  
 Assignment-8(Part\_1) 3  
}  
// custom exception class that extends the Exception class  
class NOMATCHEXCP extends Exception {  
 NOMATCHEXCP(int line, String input) {  
 super("Error on line " + line + ": Input string \"" + input + "\" does not match \"India\"");  
 }  
}

**Output-Graphical user interface, text

Description automatically generated**

**Github-**[**https://github.com/arjuntyagi19/java\_assignment**](https://github.com/arjuntyagi19/java_assignment)