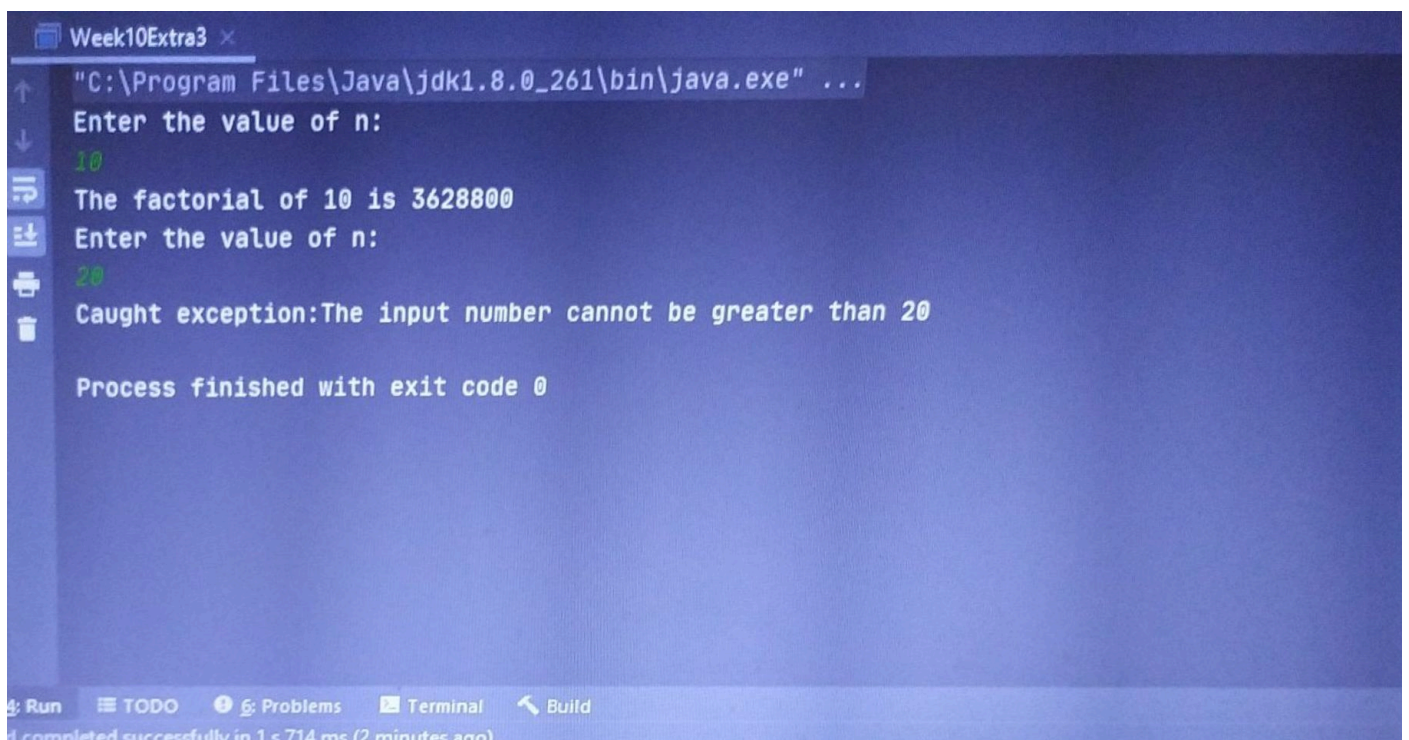


```
import java.util.Scanner;
class MyException extends Exception
{
    int n;
    MyException(int n)
    {
        this.n=n;
    }
    public String toString()
    {
        return "The input number cannot be greater than "+n;
    }
}
public class Week10Extra3 {
    int ComputeFactorial(int n) throws MyException
    {
        if (n>15)
        {
            throw new MyException(n);
        }
        else if (n==0)
        {
            return 1;
        }
        else
        {
            return n*ComputeFactorial(n-1);
        }
    }
}
```

```
Week10Extra3.java x Week10Extra4.java x Week10Extra1.java x Lab7.java x Lab8.java x
23         return 1;
24     }
25     else
26     {
27         return n*ComputeFactorial( n: n-1);
28     }
29 }
30 public static void main(String[] args)
31 {
32     Scanner s=new Scanner(System.in);
33     int n,fac;
34     for (int i=0;i<2;i++) {
35         System.out.println("Enter the value of n:");
36         n = s.nextInt();
37         Week10Extra3 w = new Week10Extra3();
38         try {
39             fac = w.ComputeFactorial(n);
40             System.out.println("The factorial of " + n + " is " + fac);
41         } catch (MyException z) {
42             System.out.println("Caught exception:" + z);
43         }
44     }
45 }
46 }
47
48
```

The image shows a screenshot of an IDE's terminal window. The title bar of the terminal is "Week10Extra3". The terminal output shows the execution of a Java program. The first prompt is "Enter the value of n:", followed by the input "10". The program then outputs "The factorial of 10 is 3628800". The second prompt is "Enter the value of n:", followed by the input "20". The program then throws an exception: "Caught exception:The input number cannot be greater than 20". Finally, the terminal shows "Process finished with exit code 0". The IDE's status bar at the bottom indicates "Run" and "Build" buttons, and a message "Completed successfully in 1 s 714 ms (2 minutes ago)".

```
Week10Extra3 x
"C:\Program Files\Java\jdk1.8.0_261\bin\java.exe" ...
Enter the value of n:
10
The factorial of 10 is 3628800
Enter the value of n:
20
Caught exception:The input number cannot be greater than 20

Process finished with exit code 0

Run  TODO  Problems  Terminal  Build
Completed successfully in 1 s 714 ms (2 minutes ago)
```