```java
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: n-1);
```
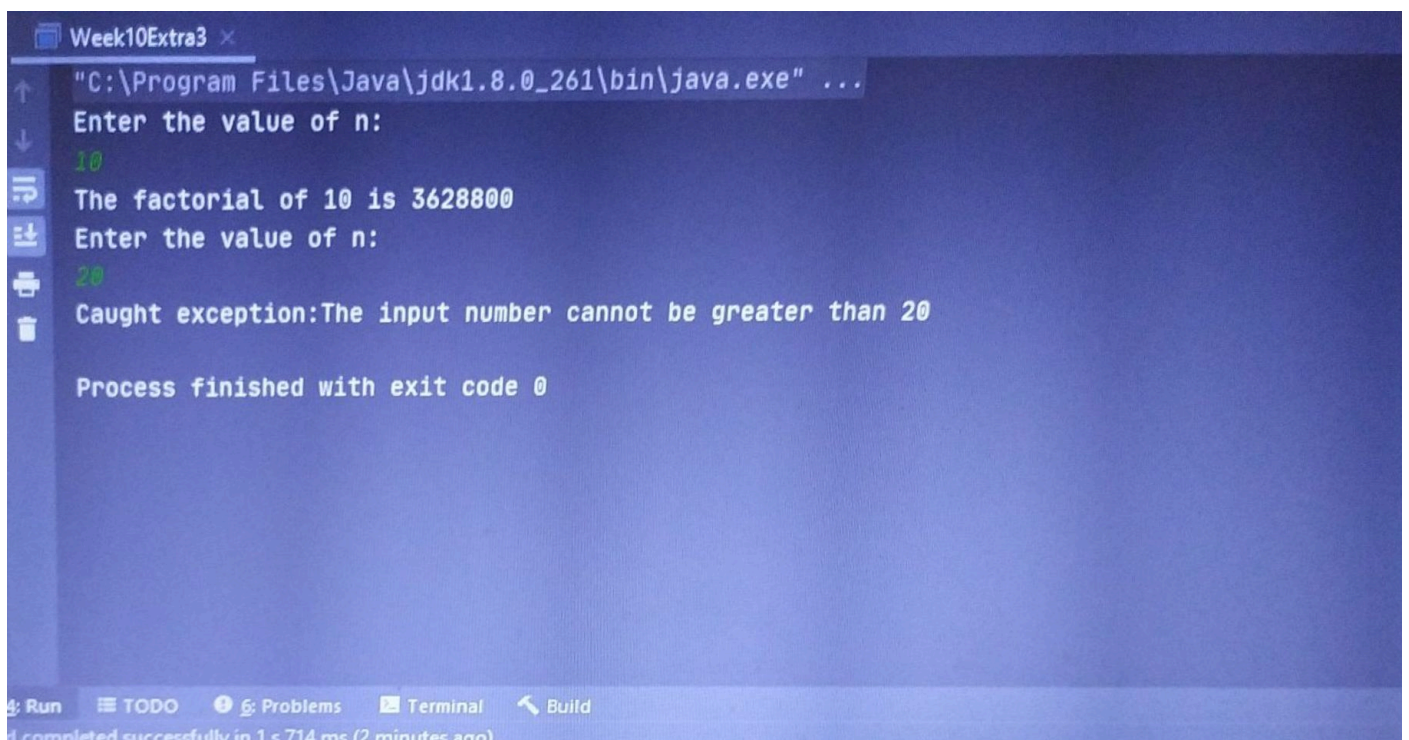
```java
23              return 1;
24          }
25          else
26          {
27              return n*ComputeFactorial( n: n-1);
28          }
29      }
30      public static void main(String[] args)
31      {
32          Scanner s=new Scanner(System.in);
33          int n,fac;
34          for (int 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
```

```
"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
```