

Week 08 : Programming Assignment 2

Due on 2025-03-20, 23:59 IST

Write a Java program that reads an integer from the user and computes its factorial.

Factorial of a number n is calculated as: $n! = n * (n-1) * (n-2) * \dots * 1$

Assume the input is a non-negative integer.

Private Test cases used for evaluation

Test Case 1

Input	Expected Output	Actual Output	Status
3	6	6	Passed

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2025-03-17, 23:22 IST

Your last recorded submission was :

```
1 import java.util.Scanner;
2
3 public class W08_P2 {
4     public static void main(String[] args) {
5         Scanner scanner = new Scanner(System.in);
6
7
8         int n = scanner.nextInt();
9         int factorial = 1;
10        for (int i = 1; i <= n; i++) {
11            factorial *= i;
12        }
13        System.out.print(factorial);
14
15
16 scanner.close();
17     }
18 }
```

Sample solutions (Provided by instructor)

```
1 import java.util.Scanner;
2
3 public class W08_P2 {
4     public static void main(String[] args) {
5         Scanner scanner = new Scanner(System.in);
6
7
8         int n = scanner.nextInt();
9         int factorial = 1;
10        for (int i = 1; i <= n; i++) {
11            factorial *= i;
12        }
13        System.out.println(factorial);
14        scanner.close();
15    }
16 }
```