Task to Calculate a factorial:

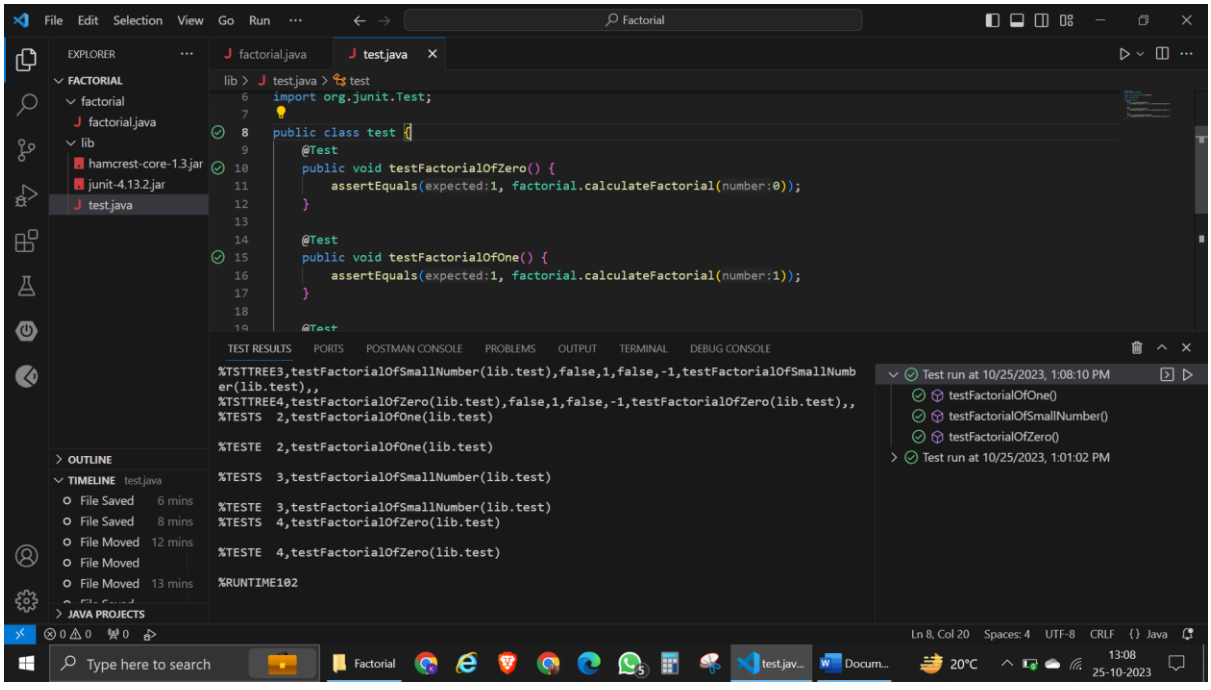
```java
package factorial;

import java.util.*;

public class factorial{
    public static void main(String[] args) {
        //taking an input from the user
        System.out.println("Enter a number ");
        Scanner sc = new Scanner(System.in);

        //reading the number
        int number = sc.nextInt();
        //calling the factorial method and storing it in a variable
        int result = calculateFactorial(number);

        //printing the result
        System.out.println("Factorial of "+number+" is "+result);
        sc.close();
    }

    public static int calculateFactorial(int number){
        int result = 1;
        int iterator = number;
        if(number == 0 || number == 1){
            result = 1;
        }

        else{
        while(iterator > 0){
            result = result * iterator;
            iterator --;
        }
        }
        return result;
    }
}
```

Task to Calculate a factorial:

//Testing using Junit Testing

```java
package lib;
import factorial.factorial;

import static org.junit.Assert.assertEquals;

import org.junit.Test;

public class test {
    @Test
    public void testFactorialOfZero() {
        assertEquals(1, factorial.calculateFactorial(0));
    }

    @Test
    public void testFactorialOfOne() {
        assertEquals(1, factorial.calculateFactorial(1));
    }

    @Test
    public void testFactorialOfSmallNumber() {
        assertEquals(6, factorial.calculateFactorial(3));
    }
}
```

Results:



Task to Calculate a factorial:

Result in terminal: