## Platform-based Programming

- **#1** Java Basics
  - 1) class and main
  - 2) method definition and invocation
  - 3) System.out.println

2019년 2학기

## **Problem**

- Write a Java program that prints factorials from 1 to the given number.
- The program should look like this!

```
Enter a number: 10
Factorial of 1 = 1
Factorial of 2 = 2
Factorial of 3 = 6
```

Factorial of 4 = 24

. . .

Factorial of 10 = 3628800

- Constraints
  - You should define separate methods for computing factorial; The name should be getFactorial.
  - The main method should invoke it instead of computing factorials directly.

## **Code Skeleton**

File name: FactorialMain.java

```
import java.util.Scanner;
public class FactorialMain {
  public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    System.out.print("Enter a number: ");
    final int number = scanner.nextInt();
    for ( int i = 1; i \le number; i ++ ) {
    scanner.close();
  private static long getFactorial(final int number) {
```