**Lab 0 Method implementation and method test**

In this lab, you are asked to implement two methods, power and factorial, and then test these methods in the main().

// calculating power i.e., base^degree (2.0)^10=1024.0

// **Note**: you cannot use existing Math.pow() method, you use a loop to compute

public static double power(double base, int degree) {

// ...

}

// calculating factorial of n, i.e., 5!=5\*4\*3\*2\*1=120

// Hint: you may use a loop

public static long factorial(int n) {

// ...

}