Main.java

Share Run

```java
public class Ex9_4 {
    public static void main(String args[]){
        int num = 9;
        System.out.println(factorial(5));
    }
    public static int factorial(int num){
        if (num == 0){
            return 1;
        }
        else{
            return num*factorial(num-1);
        }
    }
}
```

Output

```
java -cp /tmp/Tp5q5BKyng/Ex9_4
120

=== Code Execution Successful ===
```

Programiz

Online Java Compiler

Main.java

Share

Run

```java
public class Ex9_2 {
    public static void main(String[] args) {
        int n = 10;
        System.out.println("Fibonacci series up to " + n + " terms:");
        for (int i = 0; i < n; i++) {
            System.out.print(fibonacci(i) + " ");
        }
    }
    public static int fibonacci(int n) {
        if (n <= 1) {
            return n;
        } else {
            return fibonacci(n - 1) + fibonacci(n - 2);
        }
    }
}
```

Output

```
java -cp /tmp/e9ZNMlMs4B/Ex9_2
Fibonacci series up to 10 terms:
0 1 1 2 3 5 8 13 21 34
=== Code Execution Successful ===
```

Programiz

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Main.java

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```java
public class Ex9_1{
    public static void main(String args[]){
        double num = 8.0;
        System.out.println(sum_of_numbers(num,0));

    }
    public static double sum_of_numbers(double num,double sum){
        if (num == 0.0){
            return sum;
        }
        else{
            return sum_of_numbers(--num,sum+(num+1));
        }
    }
}
```

Output

```
java -cp /tmp/pl9WgsqAIV/Ex9_1
36.0

=== Code Execution Successful ===
```

Main.java

Share Run

```java
// Online Java Compiler
// Use this editor to write, compile and run your Java code online

class HelloWorld {
    public static void main(String[] args) {
        System.out.println("Try programiz.pro");
    }
}public class Ex9_5 {
    public static void main(String args[]){
        int num = 10;
        series(num,1);
    }
    public static void series(int num,int i){
        if (num == 0){
            return;
        }else{
            System.out.print((num+i)-num+",");
            series(num-1,i+1);
        }
    }
}
```

Output

```
java -cp /tmp/021xr6W7Jr/Ex9_5
1,2,3,4,5,6,7,8,9,10,
=== Code Execution Successful ===
```

Programiz

Online Java Compiler

Main.java

Share

Run

Output

```java
public class Ex9_3 {
    public static void main(String[] args) {
        String str = "malayalam";
        int end = (str.length())-1;
        System.out.println(is_palindrome(str, 0, end));
    }
    public static boolean is_palindrome(String str,int start,int end){
        if(start>=end){
            return true;
        }
        if(str.charAt(start) != str.charAt(end)){
            return false;
        }
        return is_palindrome(str, start+1, end-1);
    }
}
```

```
java -cp /tmp/4U7eY5mQDz/Ex9_3
true

=== Code Execution Successful ===
```