

Main.java



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Output

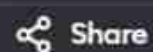
```
1- public class Ex9_4 {  
2-     public static void main(String args[]){  
3-         int num = 9;  
4-         System.out.println(factorial(5));  
5-     }  
6-     public static int factorial(int num){  
7-         if (num == 0){  
8-             return 1;  
9-         }  
10-        else{  
11-            return num*factorial(num-1);  
12-        }  
13-    }  
14- }
```

```
java -cp /tmp/tp5q5Bkyng/Ex9_4  
120
```

=== Code Execution Successful ===



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```
1 public class Ex9_2 {  
2     public static void main(String[] args) {  
3         int n = 10;  
4         System.out.println("Fibonacci series up to " + n + " terms:");  
5         for (int i = 0; i < n; i++) {  
6             System.out.print(fibonacci(i) + " ");  
7         }  
8     }  
9     public static int fibonacci(int n) {  
10        if (n <= 1) {  
11            return n;  
12        } else {  
13            return fibonacci(n - 1) + fibonacci(n - 2);  
14        }  
15    }  
16 }
```

```
java -cp /tmp/e9ZNM1Ms4B/Ex9_2  
Fibonacci series up to 10 terms:  
0 1 1 2 3 5 8 13 21 34  
=== Code Execution Successful ===
```



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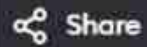
Output

```
1 public class Ex9_1{
2     public static void main(String args[]){
3         double num = 8.0;
4         System.out.println(sum_of_numbers(num,0));
5
6     }
7     public static double sum_of_numbers(double num,double sum){
8         if (num == 0.0){
9             return sum;
10        }
11        else{
12            return sum_of_numbers(--num,sum+(num+1));
13        }
14    }
15 }
```

```
java -cp /tmp/pl9wgsqAIV/Ex9_1
36.0
```

=== Code Execution Successful ===

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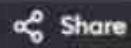
Output

```
1 // Online Java Compiler
2 // Use this editor to write, compile and run your Java code online
3
4 class HelloWorld {
5     public static void main(String[] args) {
6         System.out.println("Try programiz.pro");
7     }
8 }
9 public class Ex9_5 {
10     public static void main(String args[]){
11         int num = 10;
12         series(num,1);
13     }
14     public static void series(int num,int i){
15         if (num == 0){
16             return;
17         }else{
18             System.out.print((num+i)-num+",");
19             series(num-1,i+1);
20         }
21     }
```

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



Main.java



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Output

```
1- public class Ex9_3 {  
2-     public static void main(String[] args) {  
3-         String str = "malayalam";  
4-         int end = (str.length()-1);  
5-         System.out.println(is_palindrome(str, 0, end));  
6-     }  
7-     public static boolean is_palindrome(String str,int start,int end){  
8-         if(start>=end){  
9-             return true;  
10-        }  
11-        if(str.charAt(start) != str.charAt(end)){  
12-            return false;  
13-        }  
14-        return is_palindrome(str, start+1, end-1);  
15-    }  
16- }
```

```
java -cp /tmp/4U7eY3mIDZ/Ex9_3
```

```
true
```

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