**1] Add a series of number using recursion.**

public class sample{

public static int sum(int n){

if(n==0){

return 0;

}else{

return n+sum(n-1);

}

}

public static void main(String args[]){

System.out.print("Sum: "+sum(5));

}

}

**Output:**

Sum: 15

=== Code Execution Successful ===

**2] Factorial recursion**

public class sample{

public static int f(int n){

if(n==0){

return 1;

}else{

return n\*f(n-1);

}

}

public static void main(String args[]){

System.out.print("Fact: "+f(5));

}}

**Output:**

Fact: 120

=== Code Execution Successful ===

**3] Fibonacci series using recursion.**

public class sample{

public static int fibo(int n){

if(n<=1){

return n;

}else{

return fibo(n-1)+fibo(n-2);

}

}

public static void main(String args[]){

for(int i=0;i<10;i++){

System.out.print(" "+fibo(i));

}

}

}

**Output:**

0 1 1 2 3 5 8 13 21 34

=== Code Execution Successful ===

**4] Check palindrome or not using recursion.**

public class P{

public static boolean isP(String s,int i){

int n=s.length();

if (i>=n/2) return true;

if (s.charAt(i)!=s.charAt(n-i-1)) return false;

return isP(s,i+1);

}

public static void main(String args[]){

String input="madam";

if (isP(input,0)){

System.out.println(input+" is a palindrome.");

} else{

System.out.println(input+" is not a palindrome.");

}}}

**Output:**

madam is a palindrome.

=== Code Execution Successful ===

**5] Print a series of number using recursion.**

public class sample{

public static int s(int n){

if(n==0){

return 0;

}else{

System.out.println(n);

return s(n-1);

}

}

public static void main(String args[]){

System.out.print(s(10));

}}

**Output:**

10

9

8

7

6

5

4

3

2

1

0

=== Code Execution Successful ===