Exp. Name: Write a C program to display the Fibonacci series up to the given number of terms using Recursion

Aim:

Write a program to display the fibonacci series up to the given number of terms using recursion process.

```
The fibonacci series is 0 1 1 2 3 5 8 13 21 34.....
```

At the time of execution, the program should print the message on the console as:

```
Enter value of n :
```

For example, if the user gives the **input** as:

```
Enter value of n : 6
```

then the program should print the result as:

```
The fibonacci series of 6 terms are : 0 1 1 2 3 5
```

Note: Write the recursive function fib() in Program908a.c.

Source Code:

```
Program908.c
```

```
#include <stdio.h>
#include "Program908a.c"

void main() {
   int n, i;
   printf("Enter value of n : ");
   scanf("%d", &n);
   printf("The fibonacci series of %d terms are : ", n);
   for (i = 0; i < n; i++) {
      printf(" %d ", fib(i));
   }
}</pre>
```

Program908a.c

```
int fib(int n);
int fib(int n)
{
   if( n==0)
   return 0;
   else if(n==1)
   return 1;
   else
   return(fib(n-1)+fib(n-2));
}
```

Test Case - 1		
User Output		
Enter value of n : 4		
The fibonacci series of 4 terms are : 0 1 1 2		

Test Case - 2
User Output
Enter value of n : 8
The fibonacci series of 8 terms are : 0 1 1 2 3 5 8 13

Test	t Case - 3
User Output	
Enter value of n : 14	
The fibonacci series of 14 terms are : 0	1 1 2 3 5 8 13 21 34 55 89 144 233

Test Case - 4	
User Output	
Enter value of n : 3	
The fibonacci series of 3 terms are : 0 1 1	