Aim:

```
Write a program to print the Fibonacci series up to the given limit.
```

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

Exp. Name: Write a C program to print the Fibonacci series up to the given limit

```
Enter the maximum limit to generate the Fibonacci series :
```

For example, if the user gives the input as:

using Functions

```
Enter the maximum limit to generate the Fibonacci series : 15
```

then the program should **print** the result as:

```
The Fibonacci series is : 0 1 1 2 3 5 8 13
```

Note: Write the function **fibonacci()** in Program708a.c.

Source Code:

```
Program708.c
```

```
#include <stdio.h>
#include "Program708a.c"

void main() {
   int number;
   printf("Enter the maximum limit to generate the Fibonacci series : ");
   scanf("%d", &number);
   fibonacci(number);
}
```

```
Program708a.c
```

```
void (fibonacci(int num))
{
    int i,fib1=0,fib2=1,fib3;
    printf("The Fibonacci series is : ");
    printf("%i %i",fib1,fib2);
    fib3=fib1+fib2;
    while(fib3<num)
    {
        printf(" %i",fib3);
        fib1=fib2;
        fib2=fib3;
        fib3=fib1+fib2;
    }
    printf("\n");
}</pre>
```

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Test Case - 1
User Output
Enter the maximum limit to generate the Fibonacci series : 30
The Fibonacci series is : 0 1 1 2 3 5 8 13 21