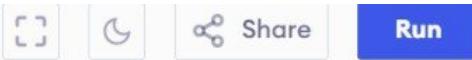


main.c



Clear

```
1 #include <stdio.h>
2
3 int fibonacci(int n) {
4     if (n == 0)
5         return 0;
6     else if (n == 1)
7         return 1;
8     else
9         return fibonacci(n - 1) + fibonacci(n - 2);
10 }
11
12 int main() {
13     int n;
14
15     printf("Enter n: ");
16     scanf("%d", &n);
17
18     printf("Fibonacci number = %d\n", fibonacci(n));
19
20     return 0;
21 }
```

Output

```
Enter n: 10
Fibonacci number = 55
```

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

3) write a program to find the fibonaccy number using recursion.

→ I/P :-

```
#include <stdio.h>
int fibonaccy(int n) {
    if (n == 0)
        return 0;
    else if (n == 1)
        return 1;
    else
```

```
        return fibonaccy(n-1) + fibonaccy(n-2);
```

3

in main () {

```
    int n;
```

```
    printf("Enter n: ");
```

```
    scanf("%d", &n);
```

```
    printf("Fibonacci number = %d", fibo
```

```
    return 0;
```

3

O/P :- Enter n = 10

Fibonacci number = 55