

main.c



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Run

Output

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 at position %d = %d\n", n, fibonacci(n));
19
20     return 0;
21 }
```

Enter n: 5  
Fibonacci number at position 5 = 5

=== Code Execution Successful ===

classmate  
Date \_\_\_\_\_  
Page \_\_\_\_\_

Program to find the  $n^{\text{th}}$  fibonacci no.  
using recursion.

IP :

```
#include <stdio.h>
int fibonacci (int n) {
    if (n == 0)
        return 0;
    else if (n == 1)
        return 1;
    else
        return fibonacci (n-1) + fibonacci (n-2);
}

int main () {
    int n;
    printf ("Enter n:");
    scanf ("%d", &n);
    printf ("Fibonacci number = %d", fibonacci (n));
    return 0;
}
```

o/p : Enter n = 10  
Fibonacci number = 55.