main.c

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Output Clear

```c
#include <stdio.h>
int fib(int n) {
    if (n == 0)
        return 0;
    else if (n == 1)
        return 1;
    else
        return fib(n-1) + fib(n-2);
}
int main() {
    int n;
    printf("Enter Fibonacci number: ");
    scanf("%d", &n);
 printf("Fibonacci number = %d", fib(n));
    return 0;
}

```

```
Enter Fibonacci number: 16
Fibonacci number = 987

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

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3) Write a program to find the nth Fibonacci number using recursion.

```
#include <stdio.h>
int fib(int n){
  if (n==0)
    return 0;
  else if(n==1)
    return 1;
  else
    return fib(n-1)+fib(n-2);
}
int main(){
  int n;
  printf("Enter Fibonacci number:");
  scanf("%d",&n);
  printf("Fibonacci number = %d",fib(n));
  return 0;
}
```

Output:-

Enter Fibonacci number :16

Fibonacci number = 987