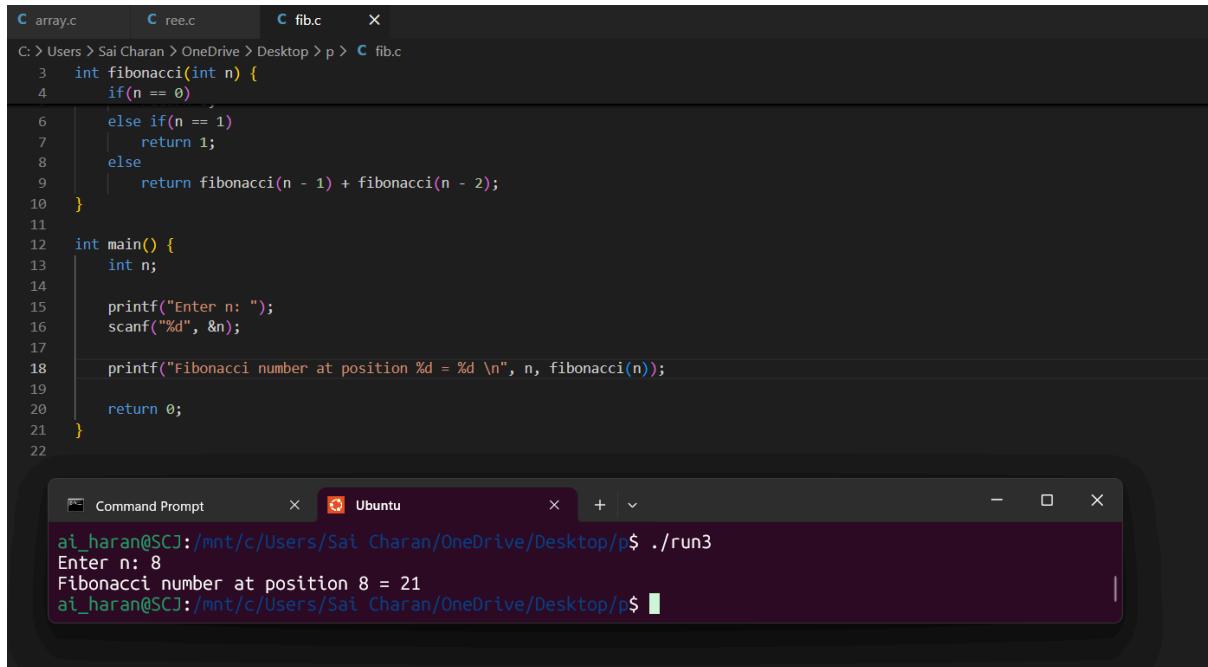


3. Write a program to find the nth Fibonacci number using recursion.

Code with output:



The image shows a terminal window with two tabs: "Ubuntu" and "Command Prompt". The "Ubuntu" tab contains the C code for a Fibonacci calculator. The "Command Prompt" tab shows the execution of the program, where the user enters the value 8 and the program outputs the Fibonacci number at position 8, which is 21.

```
C array.c      C ree.c      C fib.c      X
C: > Users > Sai Charan > OneDrive > Desktop > p > C fib.c
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 }
22
```

```
Ubuntu          Command Prompt
ai_haran@SCJ:~/mnt/c/Users/Sai Charan/OneDrive/Desktop/p$ ./run3
Enter n: 8
Fibonacci number at position 8 = 21
ai_haran@SCJ:~/mnt/c/Users/Sai Charan/OneDrive/Desktop/p$
```