main.c

Share Run

```c
#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\n", fibonacci(n));

    return 0;
}
```

Output Clear

```
Enter n: 10
Fibonacci number = 55


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

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

→ I/P :-

```
#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", fibo
return 0;
}
```

O/P :- Enter n = 10
Fibonacci number = 55