

2) Write a program to find the factorial of a number using recursion.

#include < stdio.h >

int factorial (int n);

if (n == 0 || n == 1)

return 1;

else

return n = factorial (n - 1);

int main () {

int num;

Print ("Enter a number : ");

Scanf ("%d", &num);

Print ("Factorial = %d", factorial (num));

return 0;

O/P

enter a number : 10

factorial = 3628800

main.c



Run

Clear

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

Output

Enter a number: 6

Factorial = 720

==== Code Execution Successful ===