



main.c

Run

Output

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", factorial(num));
17
18     return 0;
19 }
```

Enter a number: 10  
Factorial = 3628800

=== Code Execution Successful ===

JS

TS

-GO

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

=> I/P

```
#include <stdio.h>
```

```
int factorial(int n) {
```

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

```
        return 1;
```

```
    else
```

```
        return n * factorial(n-1);
```

```
}
```

```
int main() {
```

```
    int num;
```

```
    printf("Enter a number: ");
```

```
    scanf("%d", &num);
```

```
    printf("Factorial = %d", factorial(num));
```

```
    return 0;
```

```
}
```

O/P

Enter a number : 10

Factorial = 3628800