

```
#include <stdio.h>

long factorial(int n) {
    if (n == 0) return 1;
    return n * factorial(n - 1);
}

int main() {
    int n;
    printf("Enter a number: ");
    scanf("%d", &n);
    printf("Factorial of %d = %ld\n", n, factorial(n));
    return 0;
}
```

Output:

```
Output
Enter a number: 5
Factorial of 5 = 120

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