

5.

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

```
long long factorial(int n) {  
    if(n <= 1)  
        return 1;  
    else  
        return n * factorial(n - 1);  
}
```

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

### Output

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

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