Code

```c
#include <stdio.h>
int main() {
    int n, i;
    long long fact = 1;
    scanf("%d", &n);
    if(n < 0) {
        printf("Invalid input");
        return 0;
    }
    for(i = 1; i <= n; i++) {
        fact *= i;
    }
    printf("Factorial of %d is %lld", n, fact);
    return 0;
}
```
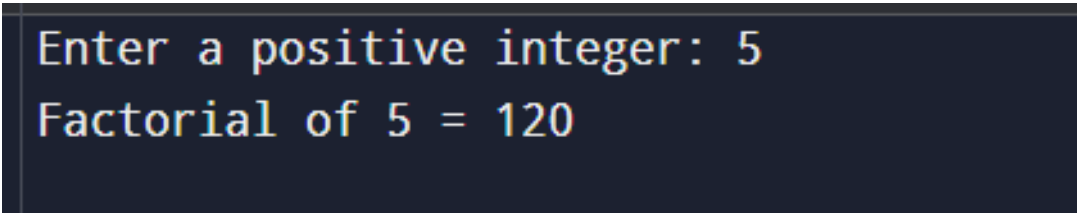
Output

```
Enter a positive integer: 5
Factorial of 5 = 120
```