

## Aim

To write a C program to find the factorial of a number without recursion.

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## Algorithm

1. Start program.
  2. Input a number `n`.
  3. Initialize `fact = 1`.
  4. Loop from `1` to `n`, multiply `fact *= i`.
  5. Print factorial.
  6. End program.
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## Code

```
#include <stdio.h>

int main() {
    int n, i;
    unsigned long long fact = 1;

    printf("Enter a number: ");
    scanf("%d", &n);

    for (i = 1; i <= n; i++) {
        fact *= i;
    }

    printf("Factorial of %d = %llu\n", n, fact);
    return 0;
}
```

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### Sample Output

```
Enter a number: 5  
Factorial of 5 = 120  
  
=== Code Execution Successful ===
```

### Result

The program calculates the factorial iteratively.