Aim

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

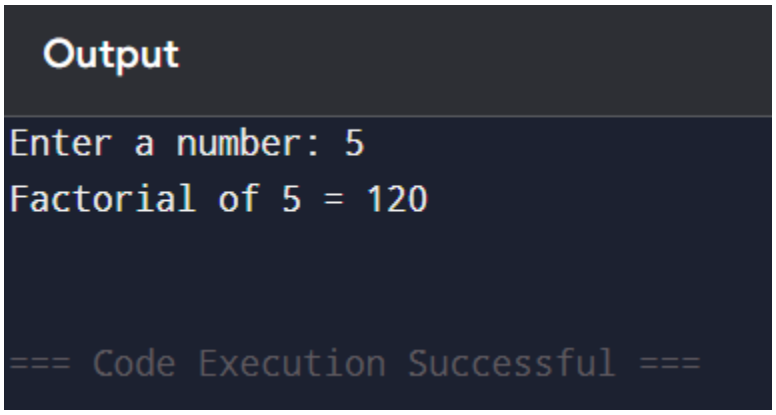
Algorithm

1. Start the program.
2. Declare variables `n` (number) and `fact` (result).
3. Input the number `n`.
4. Initialize `fact = 1`.
5. Use a loop from 1 to n:
    - Multiply `fact = fact * i`.
6. Print the factorial result.
7. End the program.

CODE:

```
#include <stdio.h>

int main() {
    int n, i;
    unsigned long long fact = 1;  // large type to store big
factorials

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

    if (n < 0) {
        printf("Factorial is not defined for negative numbers.\n");
    } else {
        for (i = 1; i <= n; i++) {
            fact *= i;
        }
        printf("Factorial of %d = %llu\n", n, fact);
    }

    return 0;
}
```

OUTPUT:



RESULT:

The program successfully executed and displayed the factorial of a given number without using recursion