

Lab Question 10: Factorial of a Number

Aim:

To write a C program to find factorial of a number.

Algorithm:

1. Start the program.
2. Read number n.
3. Initialize fact=1.
4. Loop from 1 to n: multiply into fact.
5. Print factorial.
6. Stop.

Code:

```
#include <stdio.h>

int main() {
    int n, i, fact=1;
    printf("Enter a number: ");
    scanf("%d", &n);
    for (i = 1; i <= n; i++) fact *= i;
    printf("Factorial = %d", fact);
    return 0;
}
```

Test Cases:

- Input: 5 → Output: 120

Result:

The program successfully finds factorial of a number.