Experiment 3: Factorial without Recursion

Aim:

To find the factorial of a given number without using recursion.

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Algorithm:
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1. Start.
2. Read n.
3. Initialize fact = 1.
4. Loop i = 1 to n: fact = fact * i.
5. Print fact.
6. Stop.
Code:
#include <stdio.h>
int main() {
  int n, i;
  long long fact = 1;
  printf("Enter a number: ");
  scanf("%d", &n);
  for(i = 1; i \le n; i++) {
     fact *= i;
  }
  printf("Factorial of %d = \%lld\n", n, fact);
  return 0;
}
Sample Output:
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```
Enter a number: 5
Factorial of 5 = 120
=== Code Execution Successful ===
```

Result:

The program computes the factorial without recursion.