

3. Write a C program to find Factorial of a given number without using Recursion

```
#include <stdio.h>

int main() {

    int n, i;

    unsigned long long fact = 1; // Use long long for large factorials

    printf("Enter a positive integer: ");

    scanf("%d", &n);

    if (n < 0) {

        printf("Factorial of a negative number doesn't exist.\n");

    } else {

        for (i = 1; i <= n; i++) {

            fact *= i;

        }

        printf("Factorial of %d = %llu\n", n, fact);

    }

    return 0;

}
```

main.c	Output
<pre>1 #include <stdio.h> 2 int main() { 3 int n, i; 4 unsigned long long fact = 1; 5 printf("Enter a positive integer: "); 6 scanf("%d", &n); 7 8 if (n < 0) { 9 printf("Factorial of a negative number doesn't exist.\n"); 10 } else { 11 for (i = 1; i <= n; i++) { 12 fact *= i; 13 } 14 15 printf("Factorial of %d = %llu\n", n, fact); 16 } 17 return 0; 18 } 19</pre>	<pre>Enter a positive integer: 5 Factorial of 5 = 120 === Code Execution Successful ===</pre>