

Program to calculate the sum of first n natural numbers
Positive integers 1,2,3...n are known as natural numbers

```
#include <stdio.h>
int main()
{
    int num, count, sum = 0;

    printf("Enter a positive integer: ");
    scanf("%d", &num);

    for(count = 1; count <= num; ++count)
    {
        sum += count;
    }

    printf("Sum = %d", sum);

    return 0;
}
```

The factorial of a positive number:

Factorial of n ($n!$) = $1 * 2 * 3 * 4 \dots n$

```
#include <stdio.h>
int main() {
    int n, i;
    long int fact = 1;
    printf("Enter an integer: ");
    scanf("%d", &n);

    if (n < 0)
        printf("Error!");
    else {
        for (i = 1; i <= n; ++i) {
            fact *= i;
        }
        printf("Factorial of %d = %ld", n, fact);
    }

    return 0;
}
```

