**TITLE 22**

Write a C program to find sum of natural numbers using function

**OBJECTIVE:**

By the end of this activity we will be able to find the sum of n natural numbers using functions

**PROBLEM STATEMENT:**

In this problem we aim to find the sum of natural numbers using functions. It requires input from the user:

Enter the value of n to find the sum:

Once input data is collected and stored, the sum is printed according to the value given by the user.

**ALGORITHM:**

START

Define variables: n, add

INPUT: Read input from the keyboard

COMPUTATION: Compute the sum of natural numbers

DISPLAY: Print the sum of natural numbers

STOP

**PROGRAM:**

#include<stdio.h>

int sum(int n)

{

int add = 0;

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

{

add += i;

}

return add;

}

int main()

{

int range, result;

printf("Enter the value of n to find the sum: ");

scanf("%d", &range);

result = sum(range);

printf("1+2+3+….+%d+%d = %d",range-1, range, result);

}

**CONCLUSION:**

The simulation of the above C program helped me to understand functions and how to write a program to find the sum of natural numbers.

**OUTPUT:**

Enter the value of n to find the sum: 10

1+2+3+….+9+10=55