Aim:

Develop a C Program which counts the number of positive and negative numbers separately and also compute the sum of them.

```
Sample Input and Output:
How many numbers you want to add : 6
Enter number a[0] : 3
Enter number a[1] : 5
Enter number a[2] : -5
Enter number a[3] : 7
Enter number a[4] : -8
Enter number a[5] : 6
Count of positive numbers = 4
Sum of positive numbers = 21
Count of negative numbers = 2
Sum of Negative numbers = -13
```

Source Code:

count.c

```c
#include<stdio.h>
int main()
{
    int a[20],i,n,sump=0,sumn=0,countp=0,countn=0;
    printf("How many numbers you want to add : ");
    scanf("%d",&n);
    for(i=0;i<n;i++)
    {
        printf("Enter number a[%d] : ",i);
        scanf("%d",&a[i]);
    }
    for(i=0;i<n;i++)
    {
        if(a[i]>0)
        {
            sump+=a[i];
            countp=countp+1;
        }
        else
        {
            sumn+=a[i];
            countn=countn+1;
        }
    }
        printf("Count of positive numbers = %d\n",countp);
        printf("Sum of positive numbers = %d\n",sump);
        printf("Count of negative numbers = %d\n",countn);
        printf("Sum of Negative numbers = %d\n",sumn);
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
How many numbers you want to add : 5
Enter number a[0] : 4
Enter number a[1] : 5
Enter number a[2] : 6
Enter number a[3] : 2
Enter number a[4] : 6
Count of positive numbers = 5
Sum of positive numbers = 23
Count of negative numbers = 0
Sum of Negative numbers = 0

Test Case - 2
User Output
How many numbers you want to add : 4
Enter number a[0] : -4
Enter number a[1] : -1
Enter number a[2] : -3
Enter number a[3] : -2
Count of positive numbers = 0
Sum of positive numbers = 0
Count of negative numbers = 4
Sum of Negative numbers = -10