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

```
#include<stdio.h>
int main()
{
   int i,n,a[20],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