TASK: 01

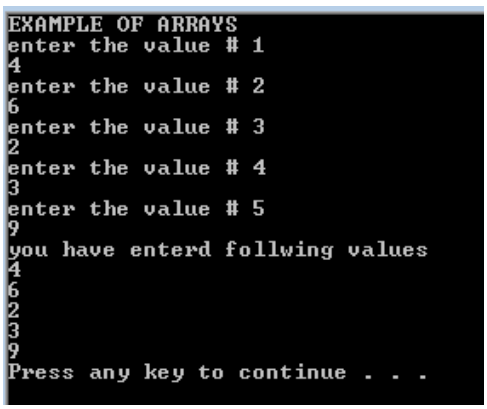
Run the sample programs, note the output and get familiar with the syntax.

Sample 1:

CODE:

```
#include "stdafx.h"
#include<iostream>
using namespace std;
int _tmain(int argc, _TCHAR* argv[])
{
	cout<<"EXAMPLE OF ARRAYS"<<endl;
int a[5];
for(int i=0;i<5;i++)
{
cout<<"enter the value # "<<i+1<<"\t"<<endl;
cin>>a[i];
}
cout<<"you have enterd follwing values"<<endl;
for(int j=0;j<5;j++)
{cout<<a[j]<<endl;}
system("pause");
	return 0;
}
```

OUTPUT:



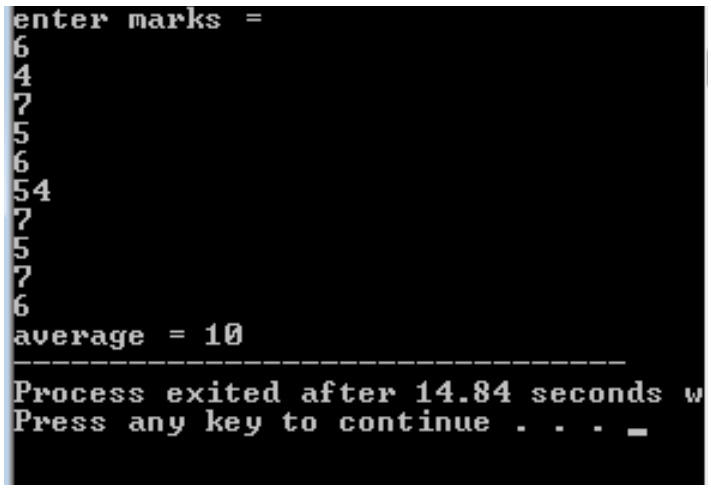
Sample 2:

CODE:

```
#include<iostream>

using namespace std;

int main()

{

	int avg, sum = 0 , i ;
```

```
int marks[10] ;
cout<<"enter marks = \n";
for ( i = 0 ; i <= 9 ; i++ )
{
cin>>marks[i];
}
for ( i = 0 ; i <= 9 ; i++ )
sum = sum + marks[i] ;
avg = sum / 10 ;
cout<<"average = "<<avg ;

        return 0;
}
```

OUTPUT:



TASK: 02

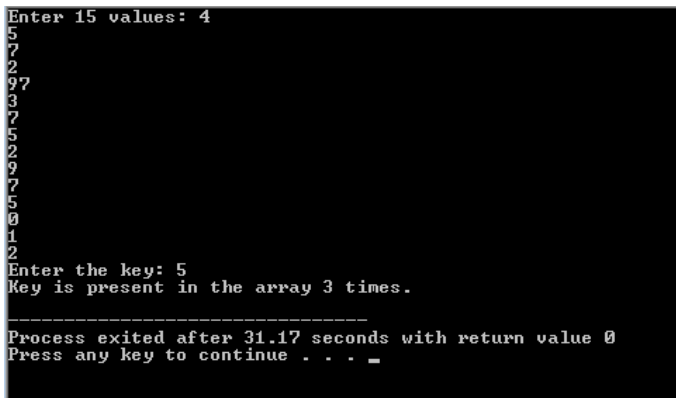
Create a program which take 15 input from user.Ask the user to enter a key. your program should search for the key if it is present in array? If yes then also print the number of times the key is present?

CODE:

```
#include <iostream>
using namespace std;
```

```
int main() {
   int arr[15];
   int key, count = 0;
   cout << "Enter 15 values: ";
   for (int i = 0; i < 15; i++)
      cin >> arr[i];
   cout << "Enter the key: ";
   cin >> key;
for (int i = 0; i < 15; i++)
      if (arr[i] == key)
         count++;
   if (count == 0)
      cout << "Key is not present in the array." << endl;
   else
      cout << "Key is present in the array " << count << " times." << endl;
   return 0;
}
```

OUTPUT:



TASK: 03

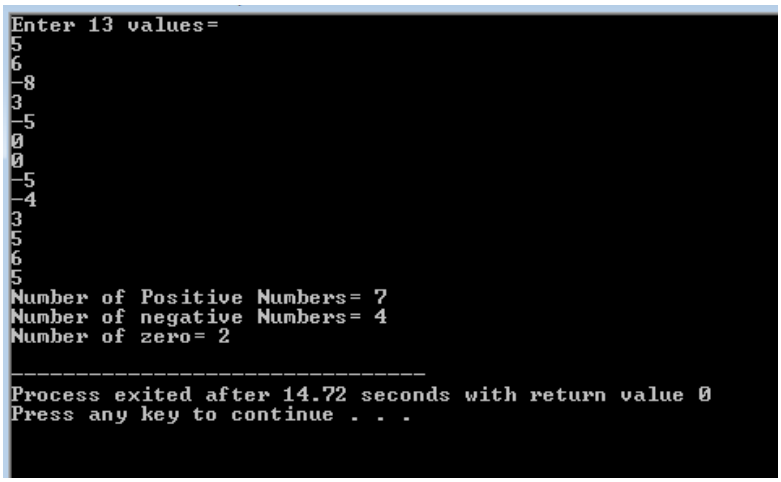
Create a C++ program to take 13 inputs from user in an array. Your program should count the number of zeros, no of positive integers, no of negative integers entered by user.

CODE:

```
#include<iostream>
```

```
using namespace std;
int main()
{
        int arr[13],z=0,p=0,n=0;
          cout<<"Enter 13 values= \n";
          for(int i=0;i<13;i++)
            cin>>arr[i];
          for(int j=0;j<13;j++){
                    if(arr[j]==0)
                      z++;
                    else if (arr[j]<0)
                      n++;
                    else if(arr[j]>0)
                      p++; }
          cout<<"Number of Positive Numbers= "<<p<<endl;
          cout<<"Number of negative Numbers= "<<n<<endl;
          cout<<"Number of zero= "<<z<<endl;
          return 0;
}
```

OUTPUT:



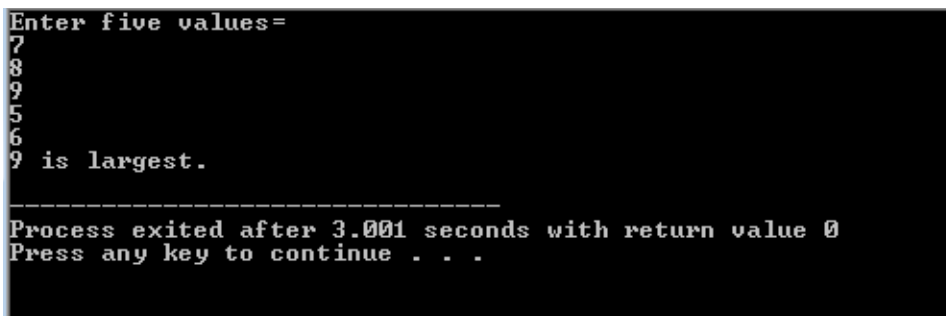
TASK 4

Create a program to find the largest number from array of 5 elements entered by user.

CODE:

```
#include<iostream>
using namespace std;
int main()
{
   int arr[5],max;
   cout<<"Enter five values= \n";
   for(int i=0;i<5;i++)
     cin>>arr[i];
     max=arr[0];
   for(int j=1;j<5;j++){
           if(arr[j]>max)
             max=arr[j];
           }
           cout<<max<<" is largest. \n";
           return 0;
}
```

OUTPUT:



TASK 5

Write a program to take 20 values from user in an array. your code should divide the array in two equal parts.

Hint: create two separate arrays copy the contents of first half of original array in array1 , copy the remaining half in array2 print both the arrays on the screen.

CODE:

```
#include<iostream>
using namespace std;
int main()
{
   int arr[20];
   cout<<"Enter 20 values= \n";
   for(int i=0;i<20;i++)
     cin>>arr[i];
     cout<<"First array = "<<endl;
   for(int j=0;j<10;j++)
            cout<<arr[j]<<endl;
          cout<<"Second array = "<<endl;
   for(int k=10;k<20;k++)
            cout<<arr[k]<<endl;
          return 0;
}
```

OUTPUT: