**3:** ***Write C++ program, to find the summation of array elements:***

**#include<iostream.h>**

**void main ( )**

**{**

**int const L = 10; int a [L];**

**int sum = 0;**

**cout << "enter 10 numbers \n"; for ( int i =0; i <L; i++ )**

**{**

**cout << “enter value “ << i << “: “; cin >> a [ i ];**

**sum += a [ i ];**

**}**

**cout << "sum is: " << sum << endl;**

|  |  |
| --- | --- |
| **Example 4*:Write C++ program, to find the minimum value*** | ***in array of 8*** |
| ***numbers:*** |  |  |
| **#include<iostream.h>** |  |
| **void main ( )** |  |
| **{** | ***int n = 8;*** | **int a [ ] = { 18, 25, 36, 44, 12, 60, 75, 89 };** |
|  | **int min = a [ 0 ];** |  |
|  | **for ( int i = 0; i < n; i++ )** |
|  | **if ( a [ i ] < min )** | **min = a [ i ];** |
|  | **cout << "The minimum number in array is: " << min;** |

EX//: write a program in c++ to read (100) integer number and create tow array , one for odd number and second for even number ?

**#include<iostream.h>**

**void main()**

**{**

**const int n=10;**

**int even[n],odd[n];**

**int i,x,e,o; e=o=0;**

**for(i=0;i<n;i++)**

**{ cin>>x;**

 **if(x%2==0)**

 **{even[e]=x; e++;}**

 **else {odd[o]=x; o++;}**

 **}**

**cout<<"even array \n";**

**for(i=0;i<e;i++)**

**cout<<even[i]<<" "; cout<<endl;**

**cout<<"odd array \n";**

**for(i=0;i<o;i++)**

**cout<<odd[i]<<" ";**

**}**

**/Write a program to shift array a[10] one site to right side?**

#include<iostream.h>

void main()

{

int a[10]={1,2,3,4,5,6,7,8,9,10};

int i,t;

t=a[9];

for(i=8;i>=0;i--)

a[i+1]=a[i];

a[0]=t;

for(i=0;i<10;i++)

cout<<" "<<a[i];

}

**//W.P. to apply ascending order on array 1\_D, A[10]?**

**#include<iostream.h>**

 **main()**

 **{ const int n = 10;**

 **int A[n]= {26, 34, 22, 17,24, 32, 19, 13, 25, 20};**

**int i,j,t;**

**for ( i = 0; i < n-1; ++i)**

 **for ( j = i+1; j < n; ++j)**

 **if (A[i]>A[j])**

 **{ t=A[i]; A[i]=A[j]; A[j]=t;}**

**for ( i = 0; i < n; ++i)**

 **cout<<A[i]<<"\t";**

**cout<<"\n";**

**}**

**/ write a program for read array 1-D a[10], then calculate the number of positive and negative elements?**

**#include<iostream.h>**

**void main()**

**{**

 **int a[10];**

 **int pos=0,neg=0;**

**for (int i=0;i<10;i++)**

**cin>>a[i];**

 **for (i=0;i<10;i++)**

**if (a[i]>=0)**

**pos++;**

**else**

**neg++;**

**cout<<" Count of POS. number = "<<pos;**

**cout<<" Count of NAG. number = "<<neg;**

**}**

**Q//write a program to find the maximum and minimum value from an array a[10]?**

**#include<iostream.h>**

**int main()**

**{**

**int a[10]; int i;**

**int larg=0,small=0;**

**cout<<"enter 10 integer number : " <<endl;**

**for (i=0;i<10;i++)**

**cin>>a[i];**

**larg=a[0]; small=a[0];**

**for (i=1;i<10;i++)**

**{**

**if (a[i]>larg)**

**larg=a[i];**

**if (a[i]<small)**

 **small=a[i];**

**}**

**cout<<"largest value = "<<larg<<endl;**

**cout<<"smallest value = "<<small<<endl;**

**}**