**/\* C++ Program to Find Duplicate Elements in an Array \*/**

**#include<iostream.h>**

**void main()**

**{**

**int i,j,a[50],size;**

**cout<<"Enter array size( Max:50 ) :: ";**

**cin>>size;**

**cout<<"\nEnter array elements :: \n";**

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

**{**

**cout<<"\nEnter arr["<<i<<"] Element :: ";**

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

**}**

**cout<<"\nStored Data in Array :: \n\n";**

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

**{**

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

**}**

**cout<<"\n\nDuplicate Values in Given Array are :: \n\n";**

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

**{**

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

**{**

**if(a[i]==a[j])**

**{**

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

**}**

**}**

**}**

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

**}**

**/\* C++ Program to Delete an element in an array at desired position \*/**

**#include<iostream.h>**

**void main()**

**{**

**int i,a[50],no,pos,size;**

**cout<<"Enter array size( Max:50 ) :: ";**

**cin>>size;**

**cout<<"\nEnter array elements :: \n";**

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

**{**

**cout<<"\nEnter arr["<<i<<"] Element :: ";**

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

**}**

**cout<<"\nStored Data in Array :: \n\n";**

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

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

**cout<<"\n\nEnter position to Delete number :: ";**

**cin>>pos;**

**if(pos>size)**

**cout<<"\nThis is out of range.\n";**

**else**

**--pos;**

**for(i=pos;i<=size-1;i++)**

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

**cout<<"\nNew Array is :: \n\n";**

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

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

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

**}**

**/\* C++ Program to Find Largest of n Numbers in an Array \*/**

**#include<iostream.h>**

**void main()**

**{**

**int large, arr[100], size, i;**

**cout<<"Enter Size of Array :: ";**

**cin>>size;**

**cout<<"\nEnter array elements :: \n";**

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

**{**

**cout<<"\nEnter ["<<i+1<<"]"<<" Element :: ";**

**cin>>arr[i];**

**}**

**cout<<"\nSearching for largest number ...\n\n";**

**large=arr[0];**

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

**{**

**if(large<arr[i])**

**{**

**large=arr[i];**

**}**

**}**

**cout<<"Largest Number in Array = "<<large<<"\n";**

**}**

**/\* C++ Program to Insert an element in an array at specific position \*/**

**#include<iostream.h>**

**void main()**

**{**

**int i,a[50],no,pos,size;**

**cout<<"Enter array size( Max:50 ) :: ";**

**cin>>size;**

**cout<<"\nEnter array elements :: \n";**

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

**{**

**cout<<"\nEnter arr["<<i<<"] Element :: ";**

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

**}**

**cout<<"\nStored Data in Array :: \n\n";**

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

**{**

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

**}**

**cout<<"\n\nEnter position to insert number :: ";**

**cin>>pos;**

**if(pos>size)**

**{**

**cout<<"\nThis is out of range.\n";**

**}**

**else**

**{**

**cout<<"\nEnter number to be inserted :: ";**

**cin>>no;**

**--pos;**

**for(i=size;i>=pos;i--)**

**{**

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

**}**

**a[pos]=no;**

**cout<<"\nNew Array is :: \n\n";**

**for(i=0;i<size+1;i++)**

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

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

**}**

**/\* C++ Program to find Average of n Numbers using array \*/**

**#include <iostream>**

**using namespace std;**

**int main()**

**{**

**int n, i;**

**float a[100], sum=0.0 , average;**

**cout<<"Enter size of Array (Value of N ):: ";**

**cin>>n;**

**cout<<"\nEnter elements to the array :: \n";**

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

**{**

**cout<<"\nEnter "<<i+1<<" element :: ";**

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

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

**}**

**average = sum / n;**

**cout << "\nAverage of "<<n<<" Numbers is = " << average<<"\n";**

**return 0;**

**}**

**/\* C++ Program to Sort Array Elements in Ascending order \*/**

**#include<iostream>**

**int main()**

**{**

**int i,j,temp,a[50],size;**

**cout<<"Enter array size( Max:50 ) :: ";**

**cin>>size;**

**cout<<"\nEnter array elements :: \n";**

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

**{**

**cout<<"\nEnter arr["<<i<<"] Element :: ";**

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

**}**

**cout<<"\nStored Data Before Sorting In Array :: \n\n";**

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

**{**

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

**}**

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

**{**

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

**{**

**if(a[j]>a[j+1])**

**{**

**temp=a[j];**

**a[j]=a[j+1];**

**a[j+1]=temp;**

**}**

**}**

**}**

**cout<<"\n\nStored Data After Sorting In Array :: \n\n";**

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

**{**

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

**}**

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

**return 0;**

**}**