Practical 14:

/\* Program to insert, delete, sort and display elements in an array\*/

#include<iostream.h>

void main()

{

int A[100],n,x,ch;

cout<<"Enter number of elements in array : ";

cin>>n;

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

for(x=0;x<n;x++)

cin>>A[x];

cout<<"Main Menu!\n";

cout<<"1.Insert Element.\n";

cout<<"2.Delete Element.\n";

cout<<"3.Sort Elements.\n";

cout<<"Enter your choice : ";

cin>>ch;

switch(ch)

{

case 1:

{

int val,loc,prev,i;

cout<<"Enter the value to be inserted : ";

cin>>val;

cout<<"Enter the location :";

cin>>loc;

if(loc<=n)

{

prev=n;

while(prev>=loc)

{

A[prev]=A[prev-1];

prev=prev-1;

}

A[prev]=val;

n=n+1;

cout<<"Array after insertion is :";

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

cout<<A[i]<<" ";

}

else

cout<<"Location not in range.";

break;

}

case 2:

{

int loc,prev,delval,i;

cout<<"Enter the location to delete from the array :";

cin>>loc;

loc=loc-1;

if(loc<n)

{

delval=A[loc];

prev=loc;

while(prev<n)

{

A[prev]=A[prev+1];

prev=prev+1;

}

n=n-1;

cout<<"Deleted value:"<<delval;

cout<<"The array after deletion is :";

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

cout<<A[i]<<" ";

}

else

cout<<"\nYour location is not in array range to delete. ";

break;

}

case 3:

{

int i,j,tmp;

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

{

for(j=0;j<n-1;j++)

{

if(A[j]>A[j+1])

{

tmp=A[j];

A[j]=A[j+1];

A[j+1]=tmp;

}

}

}

cout<<"The array after sorting :";

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

cout<<A[i];

break;

}

}

}

Output:





