**/\* 32. wap that will read integers from user and store them in an array. Program will print the array elements in ascending and descending order program must not change the original array.\*/**

using namespace std;

#include<iostream>

int main()

{

int \*a,\*b,i,j,n,pos=0;

cout<<"\n\n\t\t Enter the size of array :- ";

cin>>n;

a=new int[n];

b=new int[n];

cout<<"\n\n\t\t Enter the array :- ";

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

cin>>a[i];

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

b[i]=a[i];

cout<<"\n\n --------------------------------------------------------------------------- ";

cout<<"\n\n MENU ";

cout<<"\n\n 1. Elements of array in ascending order without changing original array ";

cout<<"\n\n 2. Elements of array in descending order without changing original array ";

cout<<"\n\n --------------------------------------------------------------------------- ";

cout<<"\n\n\t\t Enter Ur Choice :- ";

int ch;

cin>>ch;

switch(ch)

{

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

{

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

{

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

{

int temp=b[j];

b[j]=b[j+1];

b[j+1]=temp;

}

}

}

cout<<"\n\n\t\t The Array in ascending Order is :- ";

for(int k=0;k<n;k++)

cout<<b[k]<<" ";

cout<<"\n\n\t\t The original array is :- ";

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

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

break;

case 2: for( i=0;i<n-1;i++)

{

int large=b[i];

pos=i;

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

{

if(b[j]>large)

{

large=b[j];

pos=j;

}

}

int temp1=b[i];

b[i]=b[pos];

b[pos]=temp1;

}

cout<<"\n\n\t\t The Array in Descending order is :- ";

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

cout<<b[i]<<" ";

cout<<"\n\n\t\t The original array is :- ";

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

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

break;

}

system("pause");

return 0;

}

Output:-



