**/\* 16. Program that sorts a list of n numbers using insertion sort: \*/**

using namespace std;

#include<iostream>

int main()

{

int a[20],size;

int temp,j,min;

cout<<"enter the size of array";

cin>>size;

cout<<endl;

cout<<"enter the elements of array";

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

cin>>a[i];

cout<<endl;

for(int i=1; i<size;i++)

{

temp=a[i];

j=i-1;

while( temp<a[j]&&j>=0 )

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

j--;

}

a[j+1]=temp;

}

cout<<"sorted array is";

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

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

system("pause");

return 0;

}

Output:-

