insertionsort\_07.cpp

**Compile:** g++ insertionsort\_07.cpp -o insertionsort\_07

**Run:** ./insertionsort\_07

**Program:**

#include<iostream>

using namespace std;

class demo

{

public:

intarr[100];

int n;

voidgetdata()

{

cin>>n;

cout<<"Enter "<<n<<" elements: "<<endl;

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

{

cin>>arr[i];

}

}

voidinsertsort()

{

inti,j;

cout<<"Pass 0: ";

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

{

cout<<arr[a]<<" ";

}

cout<<endl;

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

{

int temp;

temp=arr[i];

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

{

if(arr[j-1]>temp)

{

temp=arr[j];

arr[j]=arr[j-1];

arr[j-1]=temp;

}

}

cout<<"Pass "<<i<<": ";

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

{

cout<<arr[k]<<" ";

}

cout<<endl;

}

}

};

int main()

{

demo d;

cout<<"Enter total no. of elements to be store in the array: ";

d.getdata();

d.insertsort();

return 0;

}

**Output:**

