shellsort\_07.cpp

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

**Run:** ./shellsort\_07

**Program:**

#include<iostream>

using namespace std;

constint max1=100;

class array

{

intarr[max1],n;

public :

array()

{

cout<<"Enter size of array:"<<endl;

cin>>n;

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

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

cin>>arr[i];

}

voidshell\_sort()

{

int temp,inc,j,temp1,key;

for(intinc=n/2;inc>0;inc/=2)

{

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

{

temp=arr[i];

int j;

for(j=i;j>=inc&&arr[j-inc]>temp;j-=inc)

{

arr[j]=arr[j-inc];

}

arr[j]=temp;

}

}

}

void display()

{

cout<<"numbers entered are : "<<endl;

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

cout<<arr[i]<<"\t";

cout<<endl;

}

};

int main()

{

array a;

a.shell\_sort();

a.display();

return 0;

}

**Output:**

