**Aim:**

To perform bubble Sort on a structured array and show its output after each step.

**Source Code:**

#include<iostream.h>

#include<conio.h>

#include<stdio.h>

struct student

{

int rno;

char name[20];

void getdata()

{

cout<<"Enter roll no :";

cin>>rno;

cout<<"Enter name :";

gets(name);

}

void showdata()

{

cout<<"\nRoll no : "<<rno;

cout<<" Name : "<<name;

}

};

void bubblesort(student s[],int n)

{

clrscr();

student temp;

cout<<"Bubble Sort : ";

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

{

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

{

if(s[j+1].rno<s[j].rno)

{

temp=s[j+1];

s[j+1]=s[j];

s[j]=temp;

}

}

cout<<"\nArray after the paas : "<<i+1<<" is " <<" > ";

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

{

s[k].showdata();

}

}

}

void main()

{

student s[100];

int size,i;

char ch1='y';

while(ch1=='y')

{

clrscr();

cout<<"Bubble Sort :";

cout<<"\nEnter size of array : ";

cin>>size;

cout<<"\n";

cout<<"Enter elements of array ...\n";

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

{

s[i].getdata();

}

bubblesort(s,size);

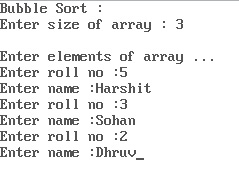
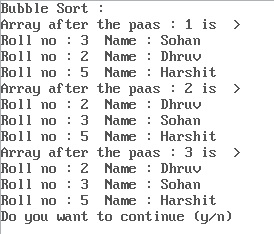
cout<<"\nDo you want to continue (y/n) ";

cin>>ch1;

}

}

**Output :**

** **