**Assignment No: 4.3**

**Title:Implementation of program based on Bubble Sort.**

**-------------------------------------------------------------------------**

#include<iostream.h>

#include<conio.h>

class BUBBLE\_

{

private:

int A[10],i,EXCH,j,n,TEMP;

public:

void GET();

void PROCESS();

void DISPLAY();

};

void BUBBLE\_::GET()

{

cout<<"\n Enter the array size :";

cin>>n;

cout<<"\n Enter the array element =>";

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

cin>>A[i];

}

void BUBBLE\_::PROCESS()

{

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

{

EXCH=0;

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

{

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

{

TEMP=A[j];

A[j]=A[j+1];

A[j+1]=TEMP;

EXCH=EXCH+1;

}

}

}

}

void BUBBLE\_:DISPLAY()

{

cout<<"\n The array element are =>";

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

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

}

void main()

{

clrscr();

BUBBLE\_ b;

b.GET();

b.DISPLAY();

b.PROCESS();

cout<<"\n After sorting: ";

b.DISPLAY();

getch();

}