**ROLL NO:-45**

**NAME : Harshit Atul Chilvirwar**

**PRACTICAL NO:-8**

**PRACTICAL NAME :- IMPLEMENTATION BUBBLE SORT**

#include "iostream.h"

#include "conio.h"

#include "stdlib.h"

class LIST

{

int \*A,size;

public:

LIST(int);

void SET\_LIST();

void VIEW\_LIST();

void BUBBLE\_SORT();

};

LIST::LIST(int par)

{

size=par;

A =new int[size+1];

}

void LIST::SET\_LIST()

{

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

A[i]=random(1000);

}

void LIST::VIEW\_LIST()

{

cout<<"List elements are : ";

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

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

}

void LIST::BUBBLE\_SORT()

{

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

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

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

{

int temp = A[j];

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

A[j+1] = temp;

}

}

void main()

{

int n;

clrscr();

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

cin>>n;

LIST obj(n);

obj.SET\_LIST();

cout<<endl<<"List before sorting : \n";

obj.VIEW\_LIST();

obj.BUBBLE\_SORT();

cout<<endl<<"List after sorting : \n";

obj.VIEW\_LIST();

getch();

}