**Experiment 6**

**Aim:** Write a Programme to implement Bubble Sort using class.

**Code:**

#include <iostream>

#include <algorithm>

using namespace std;

class BubbleSort

{

public:

int \* arr;

int n;

BubbleSort(int d)

{

n=d;

arr=new int[d];

}

~BubbleSort()

{

delete arr;

}

void input()

{

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

{

cin>>arr[i];

}

}

void Sort()

{

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

{

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

{

if(arr[i]>arr[j])

{

swap(arr[i],arr[j]);

}

}

}

}

void output()

{

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

{

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

}

}

};

int main()

{

int n;

cin>>n;

BubbleSort arr(n);

arr.input();

arr.Sort();

arr.output();

return 0;

}