1 Data Structure Lab

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/*Name:Harsh Singh
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Unit:1
Program:Bubble Sort*/
#include <iostream>
using namespace std;
int main(){
        int tmp;
        int j;
        int i;//index of the loop
        int n;//size of the array
        int A[10];//integer array
        cout<<"***Bubble sort***\n\n";</pre>
        cout<<"Enter the size of the array: ";</pre>
        cin>>n;
        cout<<"Enter the elements of the array ";
        for (i=0;i<n;i++){
                cin>>A[i];
        }
        cout<<"Elements of the array are ";
        for (i=0;i<n;i++){
                cout <<A[i]<<" ";
        }
        //Bubble Sort
        //Outerloop to control iterations
        for(i=0;i<n;i++)
        {
                for(j=0;j<n-i-1;j++)//compare adjacent elements
                {
                        if(A[j]>A[j+1]){
```

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OUTPUT:

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***Bubble sort***

Enter the size of the array: 5
Enter the elements of the array 1 3 9 2 0
Elements of the array are 1 3 9 2 0

Sorted array are:0 1 2 3 9

Process exited after 16.83 seconds with return value 0
Press any key to continue . . .
```