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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";
	cout<<"Enter the size of the array: ";
	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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                    tmp=A[j];
                    A[j]=A[j+1];
                    A[j+1]=tmp;
                }
            }
        }//end of for i
        cout<< endl<<endl;
        cout<<"Sorted array are:";
        for (i=0;i<n;i++){
            cout <<A[i]<<" ";
        }

}
```

OUTPUT: