

Lab Report-3

Course Code-CSE 207

Section-03

Program Name: Write a program to implement SORT
ARRAY using BUBBLE SORT.

Submitted by-

Name: Nuran Farhana Prova

ID: 2023-1-60-075

Submitted To-

Dr. Anup Kumar Paul

Associate Professor

Department of Computer Science and Engineering

East West University

Source Code:

Main Class:

```
package bubble_sort;
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner input = new Scanner(System.in);
        int[] data = new int[5];
        System.out.println("Enter some data");
        for(int i=0;i<data.length;i++) {
            data[i] = input.nextInt();
        }
        SortingAlgorithm sort = new SortingAlgorithm(data);
        System.out.println("The array ");

        sort.bubbleSort();
        sort.printArray();
    }
}
```

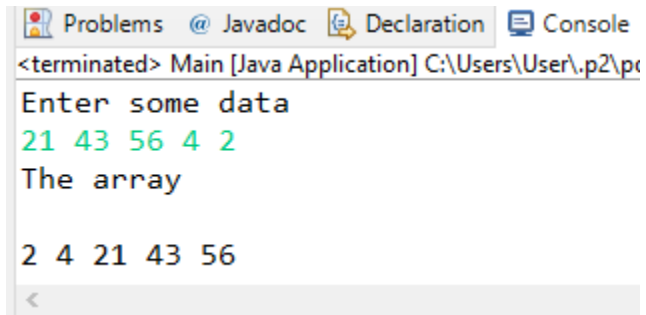
Search Class:

```
package bubble_sort;

public class SortingAlgorithm {
    int[] data;
    public SortingAlgorithm(int[] data) {
        this.data = data;
    }
    public void bubbleSort() {
        for ( int j=0; j<data.length-1;j++) {
            for ( int i=0; i<data.length-1-j;i++) {
                if(data[i]> data[i+1]) {
                    int temp = data[i];
                    data[i]= data[i+1];
                    data[i+1]= temp;
                }
            }
        }
    }
    public void printArray() {
        System.out.println();
        for(int element:data) {
            System.out.print(element+ " ");
        }
    }
}
```

}

Output :



The screenshot shows an IDE console window with four tabs: Problems, Javadoc, Declaration, and Console. The Console tab is active, displaying the following text:
<terminated> Main [Java Application] C:\Users\User\.p2\pr
Enter some data
21 43 56 4 2
The array
2 4 21 43 56
A scrollbar is visible at the bottom of the console area.

```
<terminated> Main [Java Application] C:\Users\User\.p2\pr
Enter some data
21 43 56 4 2
The array
2 4 21 43 56
<
```