# LAB#22

Q.1: Write a program to sort an array by using bubble sort algorithm:

Solution:

```python
bubblesort.py > bubble_sort
1    from array import array
2
3    def bubble_sort(arr):
4        n = len(arr)
5        for i in range(n-1):
6            for j in range(0, n-i-1):
7                if arr[j] > arr[j+1]:
8                    arr[j], arr[j+1] = arr[j+1], arr[j]
9
10   a1 = array('i', [9, 1, 12, 14, 5])
11   bubble_sort(a1)
12
13   for x in a1:
14       print(x, end=' ')
```

Result:

```
1 5 9 12 14
```

Class Assignment

Q: Explain the code (LAB#22 Example#1) in detail.