UNIVERSITY INSTITUTE of COMPUTING
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NAAC GRADE A+ ACCREDITED UNIVERSITY

Experiment No. 2.4

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Section/Group: MCD-1/ Grp B
Semester: I
Date of Performance: 07th Dec 22
Subject Name: Python Programming
Subject Code: 22CAH-645

1. Aim/Overview of the practical:

1. Write a program in python to read sort a list of integer elements using the bubble sort method. Display the sorted element on the screen.

2. Write a program in python to find out the frequency of each element in a list using a dictionary.

2. Code for experiment/practical:

A.

```
n1 = int(input("Enter First number :"))
def bubble_sort(list1):
    for i in range(0, len(list1) - 1):
        for j in range(len(list1) - 1):
            if (list1[j] > list1[j + 1]):
                temp = list1[j]
                list1[j] = list1[j + 1]
                list1[j + 1] = temp
    return list1


list1 = [5, 3, 8, 6, 7, 2]
print("The unsorted list is: ", list1)
print("The sorted list is: ", bubble_sort(list1))
```

B.

```
def CountFrequency(my_list):
    freq = {}
    for item in my_list:
        if (item in freq):
            freq[item] += 1
        else:
            freq[item] = 1

    for key, value in freq.items():
        print("% d : % d" % (key, value))
```

```
if __name__ == "__main__":
    my_list = [1, 1, 1, 5, 5, 3, 1, 3, 3, 1, 4, 4, 4, 2, 2, 2, 2]

    CountFrequency(my_list)
```

3. Output:

A.

```
C:\Users\krish\AppData\Local\Microsoft\WindowsApps\p
The unsorted list is:  [5, 3, 8, 6, 7, 2]
The sorted list is:  [2, 3, 5, 6, 7, 8]

Process finished with exit code 0
```

B.

```
C:\Users\krish\AppData\Local\Microsoft\WindowsApps\
 1 :  5
 5 :  2
 3 :  3
 4 :  3
 2 :  4

Process finished with exit code 0
```

********** THE END **********