

**ASSIGNMENT-3**  
**DOMAIN: DATA SCIENCE WITH AI-ML**  
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**SALEM.**

- Using python program to find count the number of occurrence of each element in a list .

**PROGRAM:**

```
def count_elements_in_list(lst):  
    element_count = {}  
  
    for element in lst:  
        if element in element_count:  
            element_count[element] += 1  
        else:  
            element_count[element] = 1  
  
    return element_count  
  
# Test the program  
input_list = [1, 2, 3, 2, 4, 1, 2, 5, 3, 2, 3]  
  
element_occurrence = count_elements_in_list(input_list)  
  
print("Element Occurrence:")  
for element, count in element_occurrence.items():  
    print(f"{element}: {count} times")
```

**OUTPUT:**

Element Occurrence:

1: 2 times

2: 4 times

3: 3 times

4: 1 times

5: 1 times

**“Another one example of output:”**

```
# Test the program
```

```
input_list = [1, 2, 3, 2, 4, 1, 2, 5, 3, 2, 9, 5, 55, 8]
```

**Output:**

Element Occurrence:

1: 2 times

2: 4 times

3: 2 times

4: 1 times

5: 2 times

9: 1 times

55: 1 times

8: 1 times

**“One more thing example of an output:”**

```
# Test the program
```

```
input_list = [1, 2, 3, 2, 4, 1, 2, 5, 3, 2, 600, 23, 5, 5]
```

**Output:**

Element Occurrence:

1: 2 times

2: 4 times

3: 2 times

4: 1 times

5: 3 times

600: 1 times

23: 1 times