

ASSIGNMENT-3

DOMAIN:DATA SCIENCE WITH AI-ML

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➤ *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, 1]

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: 3 times

2: 4 times

3: 2 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, 77, 8]
```

output:

Element Occurrence:

1: 2 times

2: 4 times

3: 2 times

4: 1 times

5: 2 times

9: 1 times

77: 1 times

8: 1 times

“I write one more example of an output:”

```
# Test the program
input_list = [1, 2, 3, 2, 4, 1, 2, 5, 3, 2, 100, 23, 5, 5]
```

output:

Element Occurrence:

1: 2 times

2: 4 times

3: 2 times

4: 1 times

5: 3 times

100: 1 times

23: 1 times