2.OCCURANCE OF EACH ELEMENT:

```
In [4]: sampleList = [11, 45, 8, 11, 23, 45, 23, 45, 89]
    print("Original list ", sampleList)

countDict = dict()
    for item in sampleList:
        if(item in countDict):
            countDict[item] += 1
        else:
            countDict[item] = 1

print("Printing count of each item ",countDict)

Original list [11, 45, 8, 11, 23, 45, 23, 45, 89]
    Printing count of each item {11: 2, 45: 3, 8: 1, 23: 2, 89: 1}
```

3.REMOVE DUPLICATE FROM A LIST AND CREATE A TUPILE AND FIND THE MINIMUM AND MAXIMUM NUMBER:

```
In [5]: sampleList = [87, 52, 44, 53, 54, 87, 52, 53]
    print("Original list", sampleList)
    sampleList = list(set(sampleList))
    print("unique list", sampleList)

    tuple = tuple(sampleList)
    print("tuple ", tuple)
```

```
print("Minimum number is: ", min(tuple))
print("Maximum number is: ", max(tuple))

Original list [87, 52, 44, 53, 54, 87, 52, 53]
unique list [44, 52, 53, 54, 87]
tuple (44, 52, 53, 54, 87)
Minimum number is: 44
Maximum number is: 87
```

4.CREATE A FUNCTION SHOWEMPLOYEE():

```
In [6]: def showEmployee(name, salary=50000):
    print("Employee", name, "salary is:", salary)
    showEmployee("eddy", 50000)
    showEmployee("eddy")

Employee eddy salary is: 50000
Employee eddy salary is: 50000
```

5.INNER FUNCTION TO CALCULATE THE ADDITION:

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6.RECURSIVE FUNCTION TO PRINT THE FIBONACCI SERIES OF N NUMBERS:

```
In [8]: def recur_fibo(n):
           if n <= 1:
                return n
            else:
                return(recur_fibo(n-1) + recur_fibo(n-2))
        nterms = 10
        if nterms <= 0:</pre>
           print("Plese enter a positive integer")
            print("Fibonacci sequence:")
           for i in range(nterms):
                print(recur_fibo(i))
        Fibonacci sequence:
        3
        5
        13
        21
        34
```