WEEK 3 - ASSIGNMENT 4
LIST METHODS

NOTE:

- **No need to submit anywhere, just keep track of all the PDF you made in a specific folder.**
- **Compare your solution with the solution I'll provide, in case of doubts, kindly reach out to me.**
- **You may get assignment solution in format of PDF or VIDEO solution, depending on the difficulty level.**

Q1. Make a list of your own. Make two more empty list like **odd** and **even.** Put all the even numbers from original list to **even** and odd numbers to **odd** and print both lists. (Don't remove anything from original one).

Q2. Write a function to remove duplicates from a list and print them.

Q3. Write a Python function that takes two lists and returns True if they have at least one common element.

```
lst1 = [34, 11, 91, 59, 33, 22]
lst2 = [78, 14, 23]
x = func(lst1,lst2)
print(x)
# Output
False

lst1 = [34, 11, 91, 59, 33, 22]
lst2 = [78, 14, 23, 34]
x = func(lst1,lst2)
print(x)
# Output
True
```

Q4. Write a Python Program to find sum and average of List in Python.

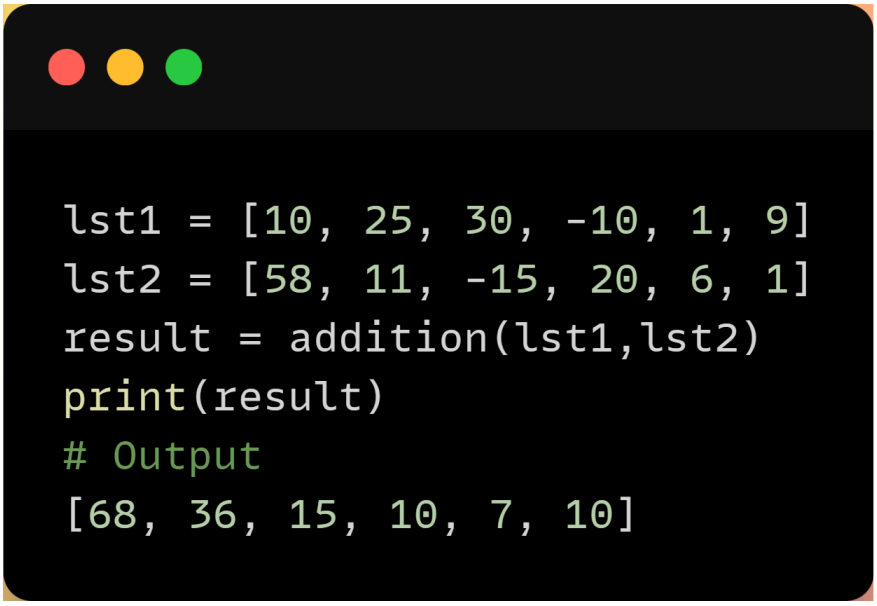
Q5. Write a program to put all the common elements (in 2 lists) in another list and print it using function.

```
lst1 = [34, 11, 91, 59, 33, 22]
lst2 = [78, 14, 23]
x = common(lst1,lst2)
print(x)
# Output
[]

lst1 = [34, 11, 91, 59, 33, 22]
lst2 = [11, 78, 14, 23, 34]
x = func(lst1,lst2)
print(x)
# Output
[34, 11] # Order doesnt matter
```

Q6. Write a program to remove the nth index element from a list using a function.

```
lst = [34, 11, 91, 59, 33, 22]
removeNth(lst,3)
# Output
[34, 11, 91, 33, 22]


lst = [34, 11, 91, 59, 33, 22]
removeNth(lst,67)
# Output
# (Do not throw error instead
# display this if index does not exists
Index does not exists
```

Q7. Make two lists of **same length** and pass it to a function. Return a third list where each element is the sum of index.



```
lst1 = [10, 25, 30, -10, 1, 9]
lst2 = [58, 11, -15, 20, 6, 1]
result = addition(lst1,lst2)
print(result)
# Output
[68, 36, 15, 10, 7, 10]
```

Q8. Take 10 integer inputs from user and store them in a list. Now, copy all the elements in another list but in reverse order.

Q9. Make a list. Write a simple program for addition of the 2nd element from start and 2nd element from the end.

Q10. Ask 10 numbers from the user and put them into the list. Now remove all the even numbers from that list.

Q11. Write a python program which prints all the values whose count is greater than 3. (Make sure to make a list with at least 15 numbers)