

WEEK 4 - ASSIGNMENT 1

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
[]

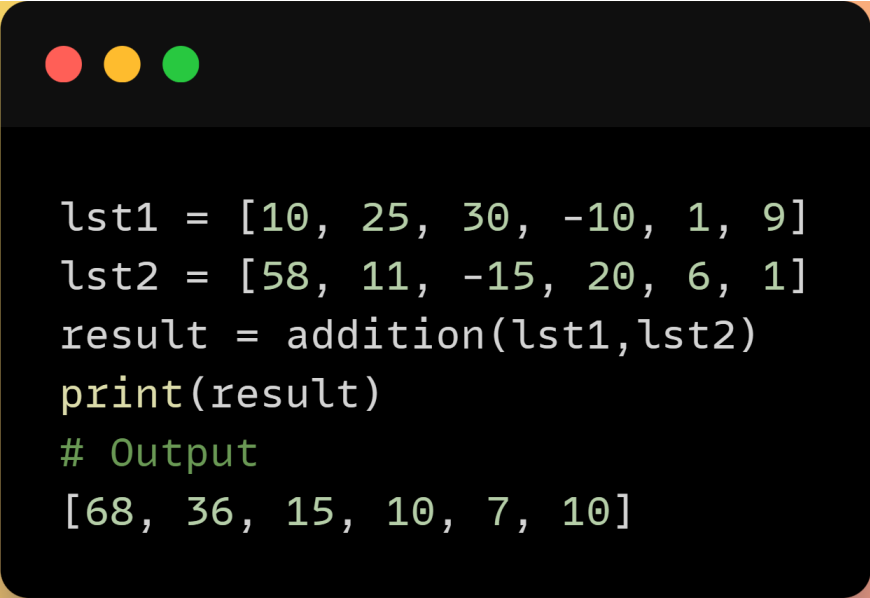
lst1 = [34, 11, 91, 59, 33, 22]
lst2 = [11, 78, 14, 23, 34]
x = func(lst1, lst2)
print(x)
# Output
[34, 11] # Order doesn't matter
```

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 exist)
Index does not exist
```

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)