ASSIGNMENT 2
LISTS 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.**

Q1. Request the user for the number of elements they would like to include. After that, continue prompting the user for numbers to form a new list.

Example
Enter number of elements = 4
Enter number = 23
Enter number = 12
Enter number = -100
Enter number = 5

Output
[23, 12, -100, 5]

Q2. Create your own list of numbers (it should have at least 10 elements, can be duplicate). Create another list which does not contain duplicates.

Example
[1, 6, 5, 1, 1, 1, 10, 1, 6]

Output
[1, 6, 5, 10]

Q3. Ask 10 numbers from the user and put them into the list. Now remove all the even numbers from that list.

Q4. 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
```

Q5. 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]
```

Q6. Write a Python Program to find sum and average of List in Python.

Q7. 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).