

WEEK 4 - ASSIGNMENT 3

BASIC LIST ITERATION

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. Print the whole list in reverse using FOR loop and WHILE loop.

Q2. Make a list of your own. Print all the numbers divisible by 3 and 4 in that list.

Q3. Make a list of your own. Count how many numbers are divisible by 5.

Q4. Make a list of your own. Calculate the length of that list **without using len()** function.

Q5. Create a function **countOddEven** that accepts an List of Integers and print how many even and odd numbers are there.

```
my_list = [34, 11, 91, 59, 33, 22]
```

```
countOddEven(my_list)
```

```
# Output
```

```
Total even numbers = 2
```

```
Total odd numbers = 4
```

Q6. Create a function **sumCountOddEven** that accepts an List of Integers

and calculate sum of even and odd numbers.

```
my_list = [34, 11, 91, 59, 33, 22]
sumCountOddEven(my_list)

# Output
Even numbers sum = 56
Odd numbers sum = 194
```

Q7. Create a function **findLargest** that accepts an List of Integers and returns the largest number from the list.

```
my_list = [34, 11, 91, 59, 33, 22]

x = findLargest(my_list)
print(x)

# Output
91
```

Q8. Create a function **findSmallest** that accepts an List of Integers and returns the smallest number from the list.

```
my_list = [34, 11, 91, 59, 33, 22]

x = findSmallest(my_list)
print(x)

# Output
11
```

Q9. Create a function **updateOddEven** that accepts an List of Integers and update all the even numbers to **0** and update all the odd numbers to **1**.

```
my_list = [34, 11, 91, 59, 33, 22]

updateOddEven(my_list)
print(my_list)

# Output
[0, 1, 1, 1, 1, 0]
```


Q10. Create a function **updateOddEven** that accepts an List of Integers and update all the even numbers to increment by **1** and update all the odd numbers to decrement by **1**.

```
my_list = [34, 11, 91, 59, 33, 22]

updateOddEven(my_list)
print(my_list)

# Output
[35, 10, 90, 58, 32, 23]
```

Q11. Create a function **calculatePrime** that accepts an List of Integers and print all the prime numbers in that list.



```
my_list = [34, 11, 91, 59, 33, 22]
```

```
calculatePrime(my_list)
```

```
# Output
```

```
11 91 59
```