

ASSIGNMENT 6

LIST BASIC QUESTIONS

NOTE:

- No need to submit anywhere, just keep track of all the PDF/Code you made in a specific folder like in VS Code
- Compare your solution with the solution I'll provide, in case of doubts, kindly reach out to me after the session

Q1. Make a list of your own containing at least 10 integers. Print how many even and odd numbers are there in that list.

Example

```
my_list = [4, 8, 6, 5, 3, 12, 1, 3]
```

Output

Odd = 4

Even = 4

Q2. Make a list of your own containing at least 10 integers. Print the total of the list without using **SUM** function.

Example

```
my_list = [4, 8, 6, 5, 3, 12, 1, 3]
```

Output

42

Q3. Make a list of your own containing at least 10 integers. Print the average of the list.

Example

```
my_list = [4, 8, 6, 5, 3, 12, 1, 3]
```

Output

5.25

Q4. Make a list of your own containing at least 10 integers. Find the maximum from that list.

Example

```
my_list = [4, 8, 6, 5, 3, 12, 1, 3]
```

Output

```
12
```

Q5. Make a list of your own containing at least 10 integers. Remove the duplicates from that list. Don't change the original list, instead store the answer in new one.

Example

```
my_list = [4, 8, 8, 8, 3, 4, 4, 1, 4, 4, 1]
```

Output

```
[4, 8, 3, 1]
```

Q6. Make a list of your own containing at least 10 integers. Create a new list containing only prime numbers.

Example

```
my_list = [4, 8, 8, 8, 3, 4, 4, 1, 4, 4, 1]
```

Output

```
[5, 7, 2, 3]
```

Q7. Make a list of your own containing at least 10 integers. Create a new list but in reverse order.

Example

```
my_list = [4, 8, 8, 8, 3, 4, 4, 1, 4, 4, 1]
```

Output

```
[1, 4, 4, 1, 4, 4, 3, 8, 8, 8, 4]
```

Q8. Make a list of your own containing at least 10 integers. Ask a number from user. If the number exists in that list, **remove that number** else print **Invalid**.

Example 1

```
my_list = [4, 8, 8, 8, 3, 4, 4, 1, 4, 4, 1]
```

```
Enter a number = 4
```

Output

```
[8, 8, 8, 3, 4, 4, 1, 4, 4, 1]
```

Example 2

```
my_list = [4, 8, 8, 8, 3, 4, 4, 1, 4, 4, 1]
```

```
Enter a number = 40
```

Output
Invalid