

ML LAB ASSIGNMENT 3

Due Date: 17/10/2025

Instructor: SHOAIB FAOOQ

Section: BSCS / BSIT

Note: Plagiarism will result in zero marks for all assignments. Submissions will not be accepted via email, WhatsApp, or any group platform under any circumstances. Only submissions through Google Classroom will be considered.

The file name must follow this format: 2020_AG_xxx_Assignment4.ipynb.

Q1: Initialize a list with your first name like

Ali = [100,-23,33,25,150,90,-71,33,45,33,54,63,69,74,78]

- **Extend above list with last four character of AG number like 2020 – AG – 6660**

So new list will be Ali = [100,-23,33,25,150,90,-71,33,45,33,54,63,69,74,78, 6660]

- **Insert -4500 at index 5**
- **insert 56777 at end of list**
- **maximum value**
- **minimum value**
- **Put even values in array of even numbers**
- **Put odd values in array of odd numbers**
- **Put positive values in array of positive numbers**
- **Put negative values in array of negative numbers**
- **Print sorted list**
- **Print list in ascending order**
- **Print list in descending order**
- **Print values those are negative**
- **Print values those are positive**

- Print multiplier of negative number form list
- Print multiplier of positive number form list
- Take power with last two digit with your AG number and print new list like 6660
take power of each element of array with 60
- Sort and print array in assenting order
- Print array in descending order
- Print numbers which are easily dividable on 5
- Remove most repetitive value from list.

Q2: initialize a list which contained 20 types of different fruits and vegetables.

- Print number of characters of each fruit
- Print those fruits or vegetables which consisted of 4 characters
- Print those fruits or vegetables which consisted of greater than 5 characters
- Print that fruit which contain 'a' character
- Print sorted list
- Print that fruit which has even number of characters

Q3: Manipulate your AG number on following way with use array.

- Insert your ag number charter by character in list 2020-ag-6660
- Replace 2020 to 2030
- Replace last 4 digits with ****
- Print ag number such a way @2020*-*ag*-*6660@