<u>ITW1</u> PYTHON ENDSEM ASSIGNMENT

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Date: July 12, 2021

1.

(a)

We have to train a classifier to distinguish between different types of fruits using K - Nearest Neighbour and Logistic Regression (use link https://scikit-learn.org/stable/).

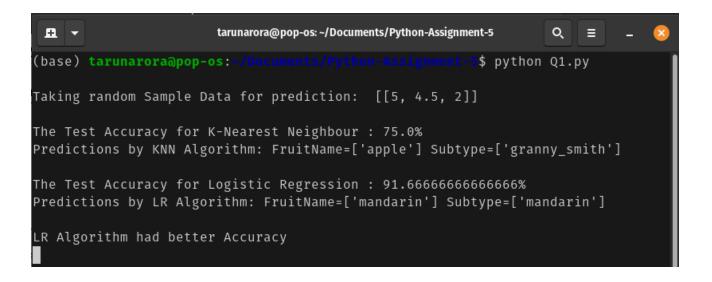
(b)

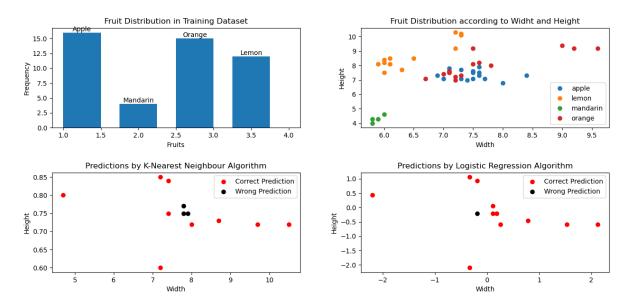
Present in both of them which algorithm works better.

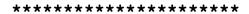
(c)

Visualize the training data and classified data using matplotlib

Solution: -



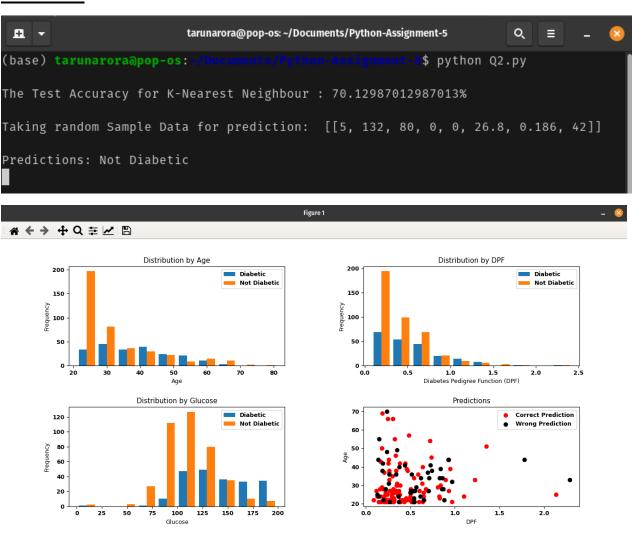




2.

- (a) We have to predict whether the patient has diabetes or not based on various features given in the dataset.
- (b) Visualize the training data and classified data using matplotlib.

Solution: -



3. Menu Calculator (Use Basic Python)

Solution: -

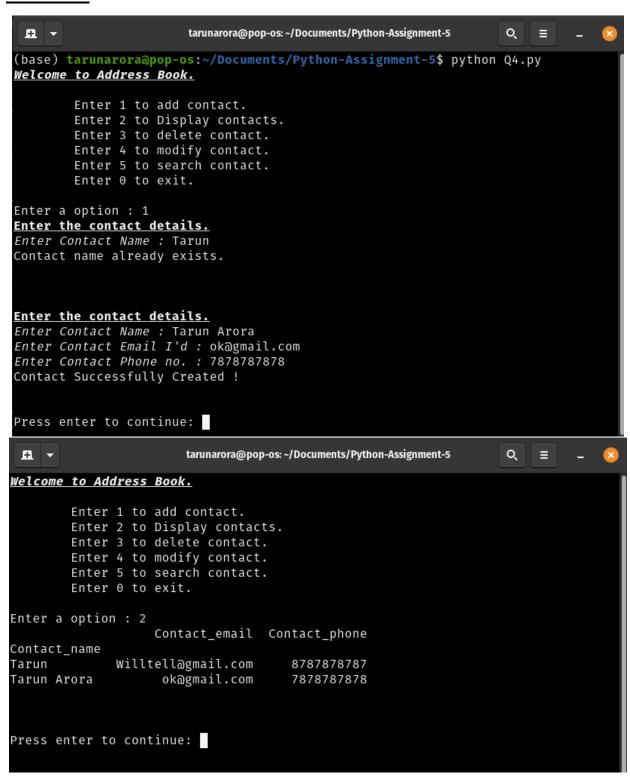
```
₽ -
                    tarunarora@pop-os: ~/Documents/Python-Assignment-5
                                                                 ≡ -
(base) tarunarora@pop-os:~/Documents/Python-Assignment-5$ python Q3.py
MENU CALCULATOR
MENU CARD
1. Chicken Strips - $3.5
2. French Fries - $2.5
3. Hamburger - $4.0
4. Hotdog - $3.5
5. Large Drink - $1.75
6. Medium Drink - $1.5
7. Milk Shake - $2.25
8. Salad - $3.75
9. Small Drink - $1.25
Enter exit to terminate.
Enter your order: 1213456
ITEMS ORDERED
Chicken Strips : 2
French Fries : 1
Hamburger : 1
Hotdog : 1
Large Drink : 1
Medium Drink : 1
Total Cost : $20.25
Press enter to continue:
```

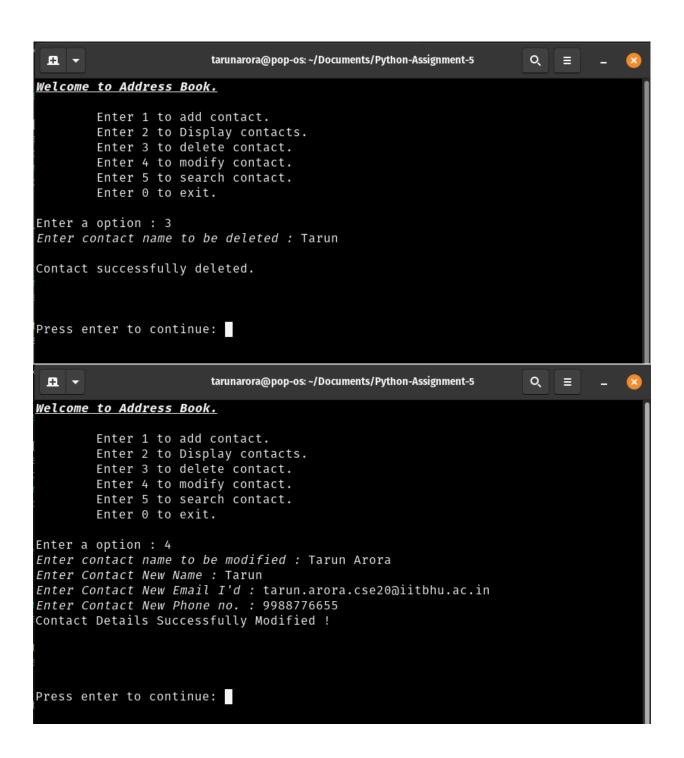
Error Checking: -

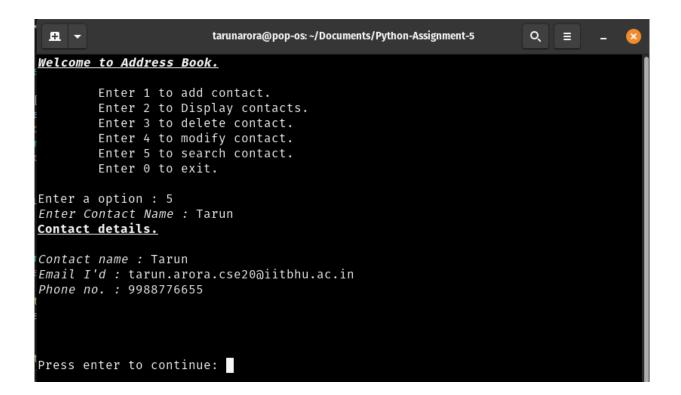
```
₽ .
                     tarunarora@pop-os: ~/Documents/Python-Assignment-5
                                                            Q ≣
MENU CARD
1. Chicken Strips - $3.5
l2. French Fries - $2.5
3. Hamburger - $4.0
4. Hotdog - $3.5
5. Large Drink - $1.75
6. Medium Drink - $1.5
7. Milk Shake - $2.25
8. Salad - $3.75
9. Small Drink - $1.25
Enter exit to terminate.
Enter your order: 0098
Some items ordered are not available in the menu.
Press enter to continue:
```

4. Create a small address book (Use Basic Python)

Solution: -







****** EOF *******