REPORT FOR ASSIGNMENT:-

• INTRODUCTION OF APPLICATION:-

I have developed a Database Application for saving the records of Drivers who work in an online Taxi-Service Company. The Fields of the Database are:

1. Driver's Name.
2. Driver's NIC Number.
3. Driver's Phone Number.
4. Driver's E-Mail Address.
5. Driver's Car Number Plate.
6. Driver's Car Class (Includes : "X","PREMIUM","GO")
7. Unique 4-Digit ID (For Searching The Record)

The Eligibility Criteria for the Driver is:

1. Driver must be a Male.
2. Driver's age should be in between 18-50.
3. Driver's Nationality should be Pakistani.

• KEY FEATURES OF THE APPLICATION:-

The Key Features of the Application are:

1. The Application takes the record for each Driver separately.
2. The Application save each record in a file.
3. The Application also provides user, the flexibility to see the Recent Records as well as All the Records.
4. The Application also provides the facility of searching for a specific record by the ID to the user.
5. The Application provides a Clean and Dynamic UI

• RUN-TIME CALCULATION:-

The run-time calculation of the Application is the calculation of the Driver's Monthly Salary which is calculated on the basis of the daily wage. The daily wage in turn is based upon the class of the car which the driver owns i.e:

♦-For Class (X): The Daily wage is 5000.0 Rs.

♦-For Class (PREMIUM): The Daily Wage is 3000.0 Rs.

♦-For Class (GO): The Daily Wage is 2000.0 Rs.

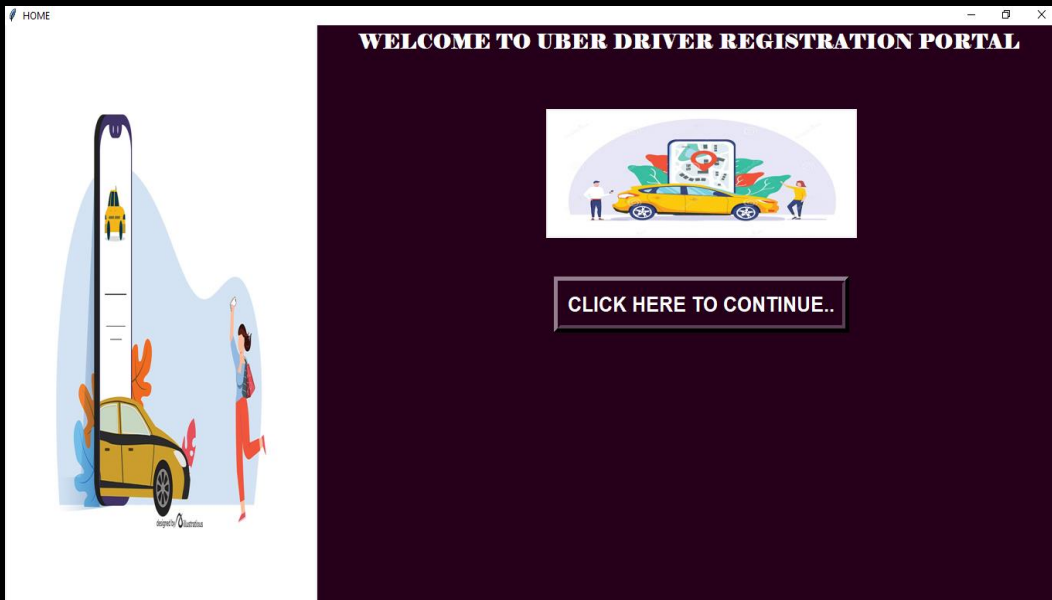- ## <u>IMPLEMENTATION ANALYSIS OF THE APPLICATION:-</u>

This Application has been developed by using Python's GUI (Graphical User Interface) library tkinter. I have made use of all the important classes of tkinter like Buttons, Labels, Entry, Photo Image, List Box, Message Box(show_info).

I have also made use of one of Python's Imaging Library ("Pillow") for opening , resizing and putting the images on the Screen.

Along with packages , I have also used the built-in Data Structure of Python i.e List to store all the records initially , then I've written the records on the file permanently. I have also used some iterative structures like "for loop" to iterate over the list for searching and other puposes. I have aslo made use of the (f-strings) to display the text on the screen in a precise manner. I have also used conditional statements like (if, else) etc to make decisions depending upon some specific conditions.

• SNAPSHOTS OF THE APPLICATION:-

1. SNAPSHOT OF HOMEPAGE:-

2. SNAPSHOT OF MAIN MENU:-

3. SNAPSHOT OF REGISTRATION PORTAL:-

4. SNAPSHOT OF CURRENT RECORDS:-

5. SNAPSHOT OF ALL RECORDS:-

NAME	NIC-NUMBER	PHONE-NUMBER	E-MAIL-ADDRESS	CAR'S-NO.PLATE	CAR-CLASS	DRIVER'S-SALARY	4-DIGIT-ID
AbdulRaffay	4210166557488	03132290956	raffay009@gmail.com	CD-098	X	150000.0	7845
AbdulRaffay	4210166557488	03132290956	raffay009@gmail.com	CD-098	X	150000.0	7845

NAME	NIC-NUMBER	PHONE-NUMBER	E-MAIL-ADDRESS	CAR'S-NO.PLATE	CAR-CLASS	DRIVER'S-SALARY	4-DIGIT-ID
ZainAli	4210155667844	03132290958	zainali009@gmail.com	CD-89	GO	60000.0	4512
AliKhan	4210166557114	031322909854	alikhan008@hotmail.com	CG-98	GO	60000.0	4512

6. SNAPSHOT OF SEARCHING A RECORD:-

SEARCH FOR A RECORD

Enter the Four-digit Unique ID Number to Search for a Record: 7845

Search The Record

The Record having ID:7845 is:

Name: AbdulRaffay
NIC-No: 4210166557488
Phone-No.: 03132290956
E-mail: raffay009@gmail.com
Car-No.Plate: CD-098
Car-Class: X
Salary: 150000.0
ID: 7845

SEARCH FOR A RECORD

Enter the Four-digit Unique ID Number to Search for a Record: 4512

Search The Record

The Record having ID:4512 is:

Name: ZainAli
NIC-No: 4210155667844
Phone-No.: 03132290958
E-mail: zainali009@gmail.com
Car-No.Plate: CD-89
Car-Class: GO
Salary: 60000.0
ID: 4512

THANK YOU!