**Experiment 11**

**Title:** Python MiniProject.

**Aim:** To develop a project to create a website of a Travel Agency.

**Requirements:** Personal Computer (PC) , Windows/ Linux Operating System, IDLE 3.6 for Python3.

**Theory:**

**About the project:**

* This project is about a **Travel Agency** site.
* In this site, users can create their UniqueId and use it to Book a new ticket for Airways, Railways as well as Roadways. Users can also view their booking details for each mode of travel. Cancellation of tickets is also possible through this site, where the all the tickets along with the user\_id gets deleted from the database. This site has its own Terms and Conditions which are mentioned in the site. Users can also contact the travel agency through the contact details available in the site.
* The modules used in this project are **Tkinter** and **sqlite3**
* The **Main window** consists of **Canvas** on which Active images are placed using **create\_image()** method of canvas. The texts (JOYOUS TRAVELS, \*T & C Apply, etc.) on the canvas are created using **create\_text()** method.
* A **Menubar** is created on the main window for options to Create a new Login Id, Book tickets for Airways, Roadways, Railways, View Tickets, Cancel Tickets, View Terms and View Contact Details.
* The inner windows are linked to the menubar and their sizes are adjusted according to the requirements.
* **Widgets** like Labels, Entry fields, Radio buttons and Button (with action when clicked) are added to the inner windows. For this the widgets were added by window name as the variable of the inner window.
* The database was created using **sqlite3.** Tables named “User”, “Airways”, “Railways” and “Roadways” were created using sql queries.
* In the window to **Create a LoginId**, Name of the user, Age, Contact no. and a UNIQUE ID was accepted; which was then stored in the Database by inserting a record in the User table. This Unique Id can be used by the user to book, view or cancel their tickets. Once the record is inserted in the User table of the database “JOYOUS”, the **messagebox()** widget is used display a message that the UserId has been created.
* For **Booking** any ticket, the user id is accepted and along with that other booking details like Number of passengers, source, destination, class of travel, date of travel, etc. These details are stored in the tables of the database according to mode of transport the user chooses(Airways, Railways, Roadways) and all the input fields are emptied after the database is updated. Once the record is inserted in the respective table, the messagebox() is used to display that the booking is succecssful.
* To **View** booked tickets, the user needs to select the mode of travel and enter his Unique User Id (showed as ‘**\***’ ) and click on the button. The details of the tickets will be displayed on a new window. To display the details, values are retrieved from the database and **Label** widget is used to show it on the window.
* To **Cancel** a ticket, the user needs to enter his User Id and click on the button. A **messagebox** will be displayed to confirm the cancellation. Once the user confirms the cancellation, the records of that user is deleted from all the tables in the database using sql quries to delete a specific record. A messagebox() is used to display a message that the bookings have been cancelled.
* **Terms and Conditions** window displays the terms and conditions of the Joyous travel agency in form of points. The widget used to display the T & C is **text().**
* **Contact details** contain the contact numbers, Fax no. and the email id of the site for the users to directly contact the Joyous Travel Agency for their queries.