**Introduction:**

I developed a graphical user interface in Python to handle and show flight data; our project is called Flight Information Application. I used pandas to read and export the data into a CSV file using the Tkinter library to add features like labels, text boxes, and buttons to the GUI. The most popular method for GUI development in Python is Tkinter, a library that comes standard by default for creating graphical user interfaces. Tkinter is a group of wrappers that force Python classes out of the Tk widgets. It is an easy-to-use module that is lightweight. The Tk toolkit, which was initially created for the Tool Command Language, is the foundation of Tkinter (Tcl). Tk has been ported to many different scripting languages because of its high popularity, including Perl (Perl/Tk), Ruby (Ruby/Tk), and Python (Tkinter).

Compared to directly programming in C/C++ with native OS system libraries, Python with Tkinter offers us a quicker and more effective solution to create valuable apps. The fact that Tkinter is cross-platform means that the same code may effectively run on Windows, macOS, and Linux, which is a crucial advantage.

Python's Pandas is an open-source library. It provides readily available, practical data formats and data analysis tools. The most crucial data structure in Pandas is the Data Frame. As a 2-D structure, it enables us to store and manage tabular data. With the following information: Flight ID, Airline, Seats Available, Source, and Destination, we have prepared a.csv file.

**GUI Design:**

The GUI screen for the flight information program is shown below. The Get Data button allows users to access the data from the CSV file and examine it in the GUI. We give consumers the ability to change and add new data. Users can enter flight information in the GUI screen below by clicking Get Data, which will load existing data in the Available Flights tab. Users can make changes and create new flight data in the Alter Flight Data tab by selecting the Update and Add Data buttons.

# **Output Screens:**

Graphical user interface, application

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