**Project Title: To-do List Application**

**Project Description:** The program allows the user to add task to the application and save these tasks to a data file. The task saved earlier can be loaded whenever required and deleted if necessary. The program uses Graphic User Interface for the convenience of user.

**Software Used:** Visual Studio Code

**Programming Language:** Python 3.6.8

**Program Details**: The program displays a to-do list application on screen where the user can choose to perform four major tasks i.e. add task, delete task, save task and load previously saved tasks. Tasks can be added and deleted as per the requirement and can be saved for later use which will be stored on a data file supported by ‘pickle’ library. The program uses tkinter library widgets such as entry, listbox, scrollbar, frame, button, etc. The display screen shows up to ten tasks and scrolling feature is available when tasks exceed that value. Warning is shown when the user tries to add empty task or delete task without selecting any of them.

*Objectives:*

The major objectives of building this program were to:

* Familiarize with GUI applications and the libraries in Python that are used to build such programs.
* Learn about the features of ‘tkinter’ and the widgets available in the library along with the syntax used to execute them.
* Understand the use of parameters within these widgets to make the user interface more convenient and easy to use.

Achievements:

The major achievements of the project were:

* The To-do List app using GUI was built which can add, delete, save and load the previous tasks.
* The tkinter library and its available widgets along with their parameters and use cases were understood.

Blocker:

Initially, while configuring the scrollbar to the listbox, the syntax was not working as expected, however, the issue was later resolved with the help of YouTube tutorials and tkinter library documentation.

**Code Link:**