**Building a To-Do List Application**

**Objective**: Create a simple to-do list application using Python.

Description:

* Implement a command-line interface or a basic GUI for managing a to-do list.
* Allow users to add, delete, update, and view tasks.
* Store task data locally using file I/O operations or SQLite database.
* Include features such as prioritizing tasks, marking tasks as complete, and filtering tasks by category or due date.

### TITLE : To-Do List Application

### ABSTRACT:

create a simple to-do list application using Python. We'll implement a graphical user interface (GUI) using Tkinter and store the tasks in an SQLite database. The application will allow users to add, delete, update, and view tasks, as well as prioritize tasks, mark them as complete, and filter tasks by category or due date. In this project, we aim to develop a user-friendly to-do list application using Python, with a graphical user interface (GUI) created using Tkinter. The objective is to provide users with a simple yet efficient tool for managing their tasks, allowing them to add, delete, update, and view tasks seamlessly.

We begin by designing the GUI interface, leveraging Tkinter's robust set of widgets to create an intuitive user experience. The interface will feature options for adding new tasks, deleting existing ones, updating task details, and marking tasks as complete. Additionally, we incorporate functionalities for prioritizing tasks and filtering them by category or due date, enhancing task organization and management.

To persist task data, we integrate an SQLite database backend, enabling efficient storage and retrieval of task information. By utilizing SQLite's lightweight and self-contained nature, we ensure seamless integration with the Python application while providing reliability and scalability.

Throughout the development process, we focus on usability and efficiency, prioritizing a clean and responsive user interface. We implement error handling mechanisms to provide a seamless user experience and ensure data integrity.

By combining the simplicity of Python with the versatility of Tkinter and SQLite, our to-do list application showcases a practical and effective solution for managing tasks efficiently. Whether for personal use or professional task management, our application offers a seamless and intuitive platform for organizing daily activities.