Python Projects

Phonebook Application:

This project allows you to create a phonebook application where you can store and manage contacts using data structures like dictionaries or lists.

Solution:

1. Create a class called Phonebook with methods to add contacts, remove contacts, search for a contact, and display all contacts.
2. Use a dictionary to store the contacts, where the keys represent the names and the values represent the phone numbers.
3. Implement the methods to interact with the phonebook, such as adding a new contact, removing an existing contact, searching for a contact by name, and displaying all contacts.

Inventory Management System:

This project involves building an inventory management system using data structures such as dictionaries or lists to keep track of products and their quantities.

Solution:

1. Create a class called Inventory with methods to add products, update quantities, search for products, and display the inventory.
2. Use a dictionary or list to store the products and their corresponding quantities.
3. Implement the methods to interact with the inventory, such as adding a new product, updating the quantity of an existing product, searching for a product by name, and displaying the current inventory status.

To-Do List Application:

This project allows you to create a to-do list application where you can add, remove, and manage tasks using data structures like lists or dictionaries.

Solution:

1. Use a list or a dictionary to store the tasks.
2. Implement methods to add tasks, remove tasks, mark tasks as completed, and display the tasks.