Java Lab Assignment:

Title: Fruit and Vegetable Management System

Objective: To create a Java program for managing information about fruits and vegetables using classes, objects, and constructors.

Description: In this lab assignment, your task is to develop a simple fruit and vegetable management system that allows users to create new items, display information about items, and perform operations related to items.

Requirements:

- 1. Create a class named Item with the following attributes:
 - name (String): The name of the item (fruit or vegetable).
 - type (String): The type of the item (fruit or vegetable).
 - price (double): The price of the item.
- 2. Implement the following constructor and methods in the Item class:
 - · Constructor: Initialize the name, type, and price of the item.
 - Methods: getName(), getType(), and getPrice() to get Name, Type and Price of the Item.
- 3. Create a class named **Inventory** to manage information about items. This class should contain an array (or list) of **Item** objects.
- 4. Implement the following methods in the Inventory class:
 - additem(Item item): Method to add a new item to the inventory.
 - displayItems(): Method to display information about all items in the inventory.
- In the Main class, create objects of the Item class representing different fruits and vegetables and add them to an object of the Inventory class.
- 6. Perform the following operations on the inventory [As indicated in 4]:
 - Add several items to the inventory.
 - Display information about all items in the inventory.

Instructions:

- 1. Define a class named Item with attributes for name, type, and price. Implement the constructor to initialize these attributes.
- Define a class named Inventory with an attribute to store a collection of items. Implement methods to add an item to the inventory and display information about all items in the inventory.

- 3. In the Main class, create objects of the Item class representing different fruits and vegetables and add them to an object of the Inventory class.
- 4. Perform the operations described above on the inventory.
- 5. Run the program and verify that the operations are performed correctly.