Job No: 01

Job Name: Prepare inventory management for fruit items

Objective: Create a Python program for managing inventory of fruit items. It allows users to input fruit records, stores them in memory, saves them to a CSV file, and prints a summary of the inventory data.

Algorithm:

- Start
- Create an Inventory class to manage fruit items.
- Define methods to add items, print summary data, and store data to CSV.
- Prompt the user to input fruit records: name, unit price, and quantity.
- Add each record to the inventory.
- Store the inventory data to a CSV file.
- Print a summary of the inventory data.
- End

Python Code:

```
import csv

class Inventory:
    def __init__(self):
        self.inventory = []

    def add_item(self, fruit_name, unit_price, quantity):
        self.inventory.append({
            'Fruits Name': fruit_name,
            'Unit Price': unit_price,
            'quantity': quantity,
            'total price': float(unit_price) * float(quantity)
        })

    def print_summary(self):
        print("Print fruits items summary data from stored CSV file")
        print("['Fruits Name', 'Unit Price', 'quantity', 'total price']")
        for item in self.inventory:
            print([item['Fruits Name'], item['Unit Price'], item['quantity'], item['total
price']])

    def store_to_csv(self, filename):
        with open(filename, mode='w', newline='') as file:
```

```
            writer = csv.DictWriter(file, fieldnames=['Fruits Name', 'Unit Price', 'quantity',
'total price'])
            writer.writeheader()
            writer.writerows(self.inventory)

# Example Usage
if __name__ == "__main__":
    inventory = Inventory()

    num_records = int(input("How many insert Fruits Record? "))
    for i in range(num_records):
        print(f"Enter Fruit record ({i + 1}):")
        fruit_name = input("Enter Fruits Name: ")
        unit_price = input("Enter Unit Price: ")
        quantity = input("Enter quantity: ")
        inventory.add_item(fruit_name, unit_price, quantity)

    inventory.store_to_csv("fruits_inventory.csv")
    inventory.print_summary()
```

Output:

```
How many insert Fruits Record? 1
Enter Fruit record (1):
Enter Fruits Name: mango
Enter Unit Price: 56
Enter quantity: 1
Print fruits items summary data from stored CSV file
['Fruits Name', 'Unit Price', 'quantity', 'total price']
['mango', '56', '1', 56.0]
```