

## Group 4 Members

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## Store Stock Tracker Requirements:

### 1. Program Overview:

- We are to create a program that monitors stock for a small business.
- Every day the cashier will run the script, which will import a CSV file with the current stock.

### 2. CSV file format:

- The csv file format will contain the following fields "Item", "Current Stock", "Price per Item"
- An example of the csv file is:  
*"Item","Current Stock","Price per Item"*  
*"Apple","3","1.00"*  
*"Banana","4","2.50"*  
*"Orange","5","1.50"*

### 3. Data types:

- String: 'e'
- Integer: day selection, current stock, from warehouse
- Float: price per item, total sales, lost sale
- Dictionaries
- List of dictionaries

### 4. Script Behaviour:

- The script will import the CSV and display it in a readable format.
- It will display a table with 3 columns which should be properly justified.

### 5. User Interaction:

- During the day, the cashier will be able to enter items that have been sold using a user prompt.
- The script should prompt the user to "Select a number (1-3) to indicate a sale, or 'e' to indicate end of day:"
- Each time the cashier enters a number, the current stock will decrement by 1. Stop decrementing when a particular item reaches 0.
- The script will also track "lost sales" anytime the cashier enters an item that has already reached 0 it will be incremented by 1.
- When the user enters 'e', the store closes and the script generate 3 reports.

### 6. Total Sales Report:

- This is an itemized table for each item with columns "#," "Item," "Sales," "Price per Item," and "Total."
- It includes a grand total for all items.

#### **7. Lost Sales Report:**

- This is a table that lists the items that a customer tried to buy but was out of stock.
- It has the same columns as the Total Sales table but made up of the lost sales data "#," "Item," "Sales," "Price per Item," and "Total."
- It also has a total lost sales for all items.

#### **8. Restock Report:**

- This table displays the final report, it has the columns "#", "Item", "Demand", "20%", "Total Demand", "Current Stock" and "From Warehouse"
- Demand is the total sales and lost sales.
- 20% of demand rounded to the nearest integer plus "Demand" to get "Total Demand"
- "Current Stock" is what is left from the original stock at the start of the day. (Total item Sales – Current Stock)
- If "Total Demand" is more than "Current Stock", the difference is gotten "From Warehouse"

#### **9. Input Validation and Exception handling:**

- Item selection
- End of day
- File not found