# 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.

1. **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"*

1. **Data types:**

* String: ‘e’
* Integer: day selection, current stock, from warehouse
* Float: price per item, total sales, lost sale
* Dictionaries
* List of dictonaries

1. **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.

1. **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.

1. **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.

1. **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.

1. **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”

1. **Input Validation and Exception handling:**

* Item selection
* End of day
* File not found