**Name:**  Abenes, Enrico O.  **Date:**  May 27, 2023

**Subject & Section:** CC2 – INTL 1  **Schedule:** 7: 30 am – 11: 20 am FSat

**ONLINE STORE MANAGEMENT SYSTEM**

**FINAL PROJECT – PHASE 1**

1. **Summary of Plan**

Creating a program that has a purpose to organize an Inventory Store and record a Sales Report using a Python/Pycharm IDE with the assistance of the following: Algorithm, Pseudocode, and Flowchart.

When the application is run, a menu-driven interface for managing products, keeping track of inventories, handling orders, and creating sales reports is displayed. The main menu has tools for managing products (adding, updating, and removing), showing the available inventory, looking for certain products, processing customer orders, and creating sales reports. Data on product inventory and orders is loaded into the system from text files, and after any changes, the data is saved back to the original files. The system also has tools for retrieving the best-selling item and creating sales records for days, weeks, or months. Overall, the program offers a productive and systematic technique to control the inventory and sales activities of an online company.

1. **Algorithm**

**Manage Products**

**Add Product**  
 Input: name, price, quantity

Process: product = {“name”: name, “price”: price, “quantity”: quantity}

Output: product

**Update Product**

Input: name, new price, new quantity

Process: product = {“name”: name, “new price”: price, “new quantity”: quantity}

Output: product

**Remove Product**

Input: name, price, quantity

Process: product = {“name”: name, “price”: price, “quantity”: quantity}

Output: product

**Current Inventory**

Input: name, price, quantity

Process: product = {“name”: name, “price”: price, “quantity”: quantity}, totalPrice += price

Output: product, totalPrice

**Track Inventory**

Input: name, price, quantity

Process: product = {“name”: name, “price”: price, “quantity”: quantity}

Output: product

**Process Order**

Input: name, quantity, date

Process: order = {“name”: name, “quantity”: quantity, “order date”: date}

Output: order

**Sales Report**

Input: name, quantity, price

Process: topProduct = {“name”: name, “quantity sold”: quantity, “total sales”: sales}

Output: topProduct

**Daily Sales Report**

Input: name, price, quantity, date

Process: daily = {“name”: name, “price”: price, “quantity”: quantity, “order date”: date}

Output: daily

**Weekly Sales Report**

Input: name, price, quantity, date

Process: weekly = {“name”: name, “price”: price, “quantity”: quantity, “order date”: date}

Output: weekly

**Monthly Sales Report**

Input: name, price, quantity, date

Process: monthly = {“name”: name, “price”: price, “quantity”: quantity, “order date”: date}

Output: monthly

1. **Pseudocode**

**Manage Products**

**Add Product**

STRING name, product.

NUMBER price, quantity.

INPUT name, price, quantity

product = {“name”: name, “price”: price, “quantity”: quantity}.

OUTPUT product.

**Update Product**

STRING name, product.

NUMBER price, quantity.

INPUT name, price, quantity.

product = {“name”: name, “new price”: price, “new quantity”: quantity}.

OUTPUT product.

**Remove Product**

STRING name, product.

NUMBER price, quantity.

INPUT name.

product = {“name”: name, “price”: price, “quantity”: quantity}.

OUTPUT product.

**Current Inventory**

STRING name, product.

NUMBER price, quantity, totalPrice.

product = {“name”: name, “price”: price, “quantity”: quantity}.

totalPrice += price.

OUTPUT product, totalPrice.

**Track Inventory**

STRING name, product.

NUMBER price, quantity.

INPUT name.

product = {“name”: name, “price”: price, “quantity”: quantity}.

OUTPUT product.

**Process Order**

STRING name, order.

NUMBER quantity, date.

INPUT name, quantity.

order = {“name”: name, “quantity”: quantity, “order date”: date}.

OUTPUT order.

**Sales Report**

STRING name, topProduct.

NUMBER price, quantity.

topProduct = {“name”: name, “quantity sold”: quantity, “total sales”: sales}.

OUTPUT topProduct

**Daily Sales Report**

STRING name, daily.

NUMBER price, quantity, date.

daily = {“name”: name, “price”: price, “quantity”: quantity, “order date”: date}

OUTPUT daily

**Wekly Sales Report**

STRING name, weekly.

NUMBER price, quantity, date.

weekly = {“name”: name, “price”: price, “quantity”: quantity, “order date”: date}

OUTPUT weekly

**Monthly Sales Report**

STRING name, monthly.

NUMBER price, quantity, date.

monthly = {“name”: name, “price”: price, “quantity”: quantity, “order date”: date}

OUTPUT monthly

1. **Flowchart**