INVENTORY SYSTEM SCENARIOS

CONSTANTS

1. Importing Product Catalogue CSV to Python
    1.1. 3 Dictionaries
        1.1.1. barcode: SKU
        1.1.2. barcode: product
        1.1.3. SKU: product
    1.2. Filename: "Product-Catalogue.csv"
    1.3. Initial Product Count: 60
    1.4. Head:

BARCODE	SKU	PRODUCT
10056801	HDB-TS-RD	Red Shirt
10056802	HDB-TS-BL	Blue Shirt
10056803	HDB-TS-WH	White Shirt
10056804	HDB-TS-GR	Green Shirt
10056805	HDB-TS-K	Black Shirt

    1.5. Tail:

10056856	HDB-TP-NA	Construction Paper
10056857	HDB-CA-NA	Cartolina
10056858	HDB-LN-NA	Lanyard
10056859	HDB-IC-BL	Blue ID Case
10056860	HDB-IC-K	Black ID Case

2. Starting With A Blank Master File
    2.1. Filename: "HDB-Master-File.csv"
    2.2. Format:

DATE	TIME	PRODUCT	SKU	INFLOW	OUTFLOW

3. CSV Scan of Files (Per Day)
    3.1. Format ("barcode" as header):

10056820
10056828
10056842
10056849
10056801
10056855
10056848
10056846
10056814
10056857
10056819
10056834
10056809

SCENARIOS (SUMMARY)

A ***Inventory History by Date***	B ***Inventory History by Product***	C ***Running Balance of a Specific Product***	D ***Running Balance of All Products***
1. Run Program 2. View Inventory History 3. By Date 4. Input Date 5. Display Results	1. Run Program 2. View Inventory History 3. By Product 4. Input SKU 5. Display Results	1. Run Program 2. View Running Balance 3. Specific Product 4. Input SKU 5. Display Running Balance	1. Run Program 2. View Running Balance 3. All Products 4. Display Running Balances

E ***Logging Outflow Entries of Existing Products (Through CSV)***	F ***Logging Inflow Entries of Existing Products (Through Manual Input)***	G ***Logging New Product Info***
1. Run Program 2. Log New Entries In Master File 3. Existing Product/s 4. Log Outflow 5. Input Filename 6. Append to Master File	1. Run Program 2. Log New Entries In Master File 3. Existing Product/s 4. Log Inflow 5. Input Inflow Data 6. Append to Master File	1. Run Program 2. Log New Entries in Master File 3. New Product/s 4. Input New Product Info 5. Append Product Catalogue CSV

Scenario A: *Inventory History by Date*

1. Run Program
2. View Inventory History
   2.1. Choose: View Inventory History
3. By Date
   3.1. Choose: By Date
4. Input Date
   4.1. Input Format: MM/DD/YYYY
   4.2. Sample Input: 07/24/2019
5. Display Results
   5.1. All Transactions for Given Date:

07/24/2019	0:06	Red Shirt	HDB-TS-RD	10	0
07/24/2019	0:07	Red Shirt	HDB-TS-RD	0	6
07/24/2019	0:07	Blue Shirt	HDB-TS-BL	1	0
07/24/2019	0:07	White Shirt	HDB-TS-WH	4	1
07/24/2019	0:07	Green Shirt	HDB-TS-GR	5	0
07/24/2019	0:07	Black Shirt	HDB-TS-K	2	0
07/24/2019	0:07	Yellow Shirt	HDB-TS-YL	2	0
07/24/2019	0:07	Orange Shirt	HDB-TS-OR	4	0
07/24/2019	10:05	Red Shirt	HDB-TS-RD	0	1
07/24/2019	10:05	Blue Shirt	HDB-TS-BL	0	1
07/24/2019	10:05	White Shirt	HDB-TS-WH	0	1
07/24/2019	10:05	Green Shirt	HDB-TS-GR	0	2
07/24/2019	10:18	Red Shirt	HDB-TS-RD	0	1
07/24/2019	10:18	White Shirt	HDB-TS-WH	0	1
07/24/2019	10:18	Green Shirt	HDB-TS-GR	0	3
07/24/2019	10:18	Yellow Shirt	HDB-TS-YL	0	1

Scenario B: *Inventory History by Product*

1. Run Program
2. View Inventory History
   2.1. Choose: View Inventory History
3. By Product
   3.1. Choose: By Product
4. Input Date
   4.1. Input Format: XXX-XX-XX or XXX-XX-X
   4.2. Sample Input: HDB-TS-RD
5. Display Results
   5.1. All Transactions for Given Product:

07/24/2019	0:06	Red Shirt	HDB-TS-RD	10	0
07/24/2019	0:07	Red Shirt	HDB-TS-RD	0	6
07/24/2019	10:05	Red Shirt	HDB-TS-RD	0	1
07/24/2019	10:18	Red Shirt	HDB-TS-RD	0	1
07/25/2019	11:18	Red Shirt	HDB-TS-RD	5	0
07/26/2019	13:25	Red Shirt	HDB-TS-RD	0	3
07/26/2019	9:20	Red Shirt	HDB-TS-RD	4	0

Scenario C: *Running Balance of a Specific Product*

1. Run Program
2. View Running Balance
   2.1. Choose: View Running Balance
3. Specific Product
   3.1. Choose: Specific Product
4. Input SKU
   4.1. Input Format: XXX-XX-XX or XXX-XX-X
   4.2. Sample Input: HDB-TS-RD
5. Display Results
   5.1. Given All Current Transactions for Given Product:

07/24/2019	0:06	Red Shirt	HDB-TS-RD	10	0
07/24/2019	0:07	Red Shirt	HDB-TS-RD	0	6
07/24/2019	10:05	Red Shirt	HDB-TS-RD	0	1
07/24/2019	10:18	Red Shirt	HDB-TS-RD	0	1
07/25/2019	11:18	Red Shirt	HDB-TS-RD	5	0
07/26/2019	13:25	Red Shirt	HDB-TS-RD	0	3
07/26/2019	9:20	Red Shirt	HDB-TS-RD	4	0

   5.2. Running Balance = Total Inflow - Total Outflow
      5.2.1. Total Inflow = 19
      5.2.2. Total Outflow = 11
      5.2.3. Result:

Product	Running Balance
Red Shirt	8

Scenario D: *Running Balance of All Products*

1. Run Program
2. View Running Balance
   2.1. Choose: View Running Balance
3. All Products
   3.1. Choose: All Products
4. Display Results
   4.1. Given All Current Transactions:

07/24/2019	0:06	Red Shirt	HDB-TS-RD	10	0
07/24/2019	0:07	Red Shirt	HDB-TS-RD	0	6
07/24/2019	0:07	Blue Shirt	HDB-TS-BL	1	0
07/24/2019	0:07	White Shirt	HDB-TS-WH	4	1
07/24/2019	0:07	Green Shirt	HDB-TS-GR	5	0
07/24/2019	0:07	Black Shirt	HDB-TS-K	2	0
07/24/2019	0:07	Yellow Shirt	HDB-TS-YL	2	0
07/24/2019	0:07	Orange Shirt	HDB-TS-OR	4	0
07/24/2019	10:05	Red Shirt	HDB-TS-RD	0	1
07/24/2019	10:05	Blue Shirt	HDB-TS-BL	0	1
07/24/2019	10:05	White Shirt	HDB-TS-WH	0	1
07/24/2019	10:05	Green Shirt	HDB-TS-GR	0	2
07/24/2019	10:18	Red Shirt	HDB-TS-RD	0	1
07/24/2019	10:18	White Shirt	HDB-TS-WH	0	1
07/24/2019	10:18	Green Shirt	HDB-TS-GR	0	3
07/24/2019	10:18	Yellow Shirt	HDB-TS-YL	0	1
07/25/2019	11:18	Red Shirt	HDB-TS-RD	5	0
07/26/2019	13:25	Red Shirt	HDB-TS-RD	0	3
07/26/2019	9:20	Red Shirt	HDB-TS-RD	4	0

4.2. Running Balance = Total Inflow - Total Outflow

4.2.1. Compute Total Inflow and Total Outflow per Product:

Red Shirt	19	11
Blue Shirt	1	1
White Shirt	4	2
Green Shirt	5	5
Black Shirt	2	0
Yellow Shirt	2	1
Orange Shirt	4	0

4.2.2. Results:

Product	Running Balance
Red Shirt	8
Blue Shirt	0
White Shirt	2
Green Shirt	0
Black Shirt	2
Yellow Shirt	1
Orange Shirt	4

Scenario E: ***Logging Outflow Entries of Existing Products (Through CSV)***

1. Run Program
2. Log New Entries in Master File
   2.1. Choose: Log New Entries in Master File
3. Existing Product/s
   3.1. Choose: Existing Product/s
4. Log Outflow
   4.1. Choose: Log Outflow
5. Input Filename
   5.1. Input Format: _____.csv
   5.2. Sample Input: ”scans.csv”
   5.3. Inputted File:

barcode
10056802
10056805
10056805
10056805
10056801
10056802
10056803
10056803
10056801
10056805
10056806
10056802
10056802
10056806
10056806
10056804
10056804

6. Append to Master File
   6.1. Tally per Product:

10056801	2
10056802	4
10056803	2
10056804	2
10056805	4
10056806	3

   6.2. Data per Entry:
      6.2.1. Date: automatic based on current date
      6.2.2. Time: automatic based on current time
      6.2.3. Product: automatic based on barcode (dictionary)
      6.2.4. SKU: automatic based on barcode (dictionary)
      6.2.5. Inflow: 0 by default
      6.2.6. Outflow: automatic based on tally

6.3. Master File Tail (Before):

07/24/2019	10:18	Red Shirt	HDB-TS-RD	0	1
07/24/2019	10:18	White Shirt	HDB-TS-WH	0	1
07/24/2019	10:18	Green Shirt	HDB-TS-GR	0	3
07/24/2019	10:18	Yellow Shirt	HDB-TS-YL	0	1
07/25/2019	11:18	Red Shirt	HDB-TS-RD	5	0
07/26/2019	13:25	Red Shirt	HDB-TS-RD	0	3
07/26/2019	9:20	Red Shirt	HDB-TS-RD	4	0

6.4. Master File Tail (After):

07/25/2019	11:18	Red Shirt	HDB-TS-RD	5	0
07/26/2019	13:25	Red Shirt	HDB-TS-RD	0	3
07/26/2019	9:20	Red Shirt	HDB-TS-RD	4	0
07/27/2019	15:14	Red Shirt	HDB-TS-RD	0	2
07/27/2019	15:14	Blue Shirt	HDB-TS-BL	0	4
07/27/2019	15:14	White Shirt	HDB-TS-WH	0	2
07/27/2019	15:14	Green Shirt	HDB-TS-GR	0	2
07/27/2019	15:14	Black Shirt	HDB-TS-K	0	4
07/27/2019	15:14	Yellow Shirt	HDB-TS-YL	0	3

6.5. Mark Counted Barcodes in Inputted File (to avoid counting same entry again)

6.5.1. Inputted File (Before and After):

barcode	barcode
10056802	10056802x
10056805	10056805x
10056805	10056805x
10056805	10056805x
10056801	10056801x
10056802	10056802x
10056803	10056803x
10056803	10056803x
10056801	10056801x
10056805	10056805x
10056806	10056806x
10056802	10056802x
10056802	10056802x
10056806	10056806x
10056806	10056806x
10056804	10056804x
10056804	10056804x

Scenario F: ***Logging Inflow Entries of Existing Products (Through Manual Input)***

1. Run Program
2. Log New Entries in Master File
   2.1. Choose: Log New Entries in Master File
3. Existing Product/s
   3.1. Choose: Existing Product/s
4. Log Inflow
   4.1. Choose: Log Inflow
5. Input Inflow Data
   5.1. Input Format:
      5.1.1. SKU Format: XXX-XX-XX or XXX-XX-X
      5.1.2. Inflow Format: XXX
   5.2. Sample Input:
      5.2.1. SKU: HDB-LD-NA
      5.2.2. Inflow: 10
6. Append to Master File
   6.1. Data per Entry:
      6.1.1. Date: automatic based on current date
      6.1.2. Time: automatic based on current time
      6.1.3. Product: automatic based on SKU (dictionary)
      6.1.4. SKU: automatic based on inputted SKU
      6.1.5. Inflow: automatic based on inputted inflow
      6.1.6. Outflow: 0 by default
   6.2. Master File Tail (Before):

07/27/2019	15:14	Blue Shirt	HDB-TS-BL	0	4
07/27/2019	15:14	White Shirt	HDB-TS-WH	0	2
07/27/2019	15:14	Green Shirt	HDB-TS-GR	0	2
07/27/2019	15:14	Black Shirt	HDB-TS-K	0	4
07/27/2019	15:14	Yellow Shirt	HDB-TS-YL	0	3

   6.3. Master File Tail (After):

07/27/2019	15:14	Blue Shirt	HDB-TS-BL	0	4
07/27/2019	15:14	White Shirt	HDB-TS-WH	0	2
07/27/2019	15:14	Green Shirt	HDB-TS-GR	0	2
07/27/2019	15:14	Black Shirt	HDB-TS-K	0	4
07/27/2019	15:14	Yellow Shirt	HDB-TS-YL	0	3
07/28/2019	16:20	Lead	HDB-LD-NA	10	0

Scenario G: *Logging New Product Info*

1. Run Program
2. Log New Entries in Master File
   2.1. Choose: Log New Entries in Master File
3. New Product/s
   3.1. Choose: New Product/s
4. Input New Product Info
   4.1. Input Format:
      4.1.1. Barcode Format: 00000000
      4.1.2. SKU Format: XXX-XX-XX or XXX-XX-X
      4.1.3. Product Format: Xxxx Xxxx
   4.2. Sample Input:
      4.2.1. Barcode: 10056861
      4.2.2. SKU: HBD-TS-MS
      4.2.3. Product: Mustard Shirt
5. Append Product Catalogue CSV
   5.1. Product Catalogue CSV Tail (Before):

10056855	HDB-AP-NA	Art Paper
10056856	HDB-TP-NA	Construction Paper
10056857	HDB-CA-NA	Cartolina
10056858	HDB-LN-NA	Lanyard
10056859	HDB-IC-BL	Blue ID Case
10056860	HDB-IC-K	Black ID Case

   5.2. Product Catalogue CSV Tail (After):

10056855	HDB-AP-NA	Art Paper
10056856	HDB-TP-NA	Construction Paper
10056857	HDB-CA-NA	Cartolina
10056858	HDB-LN-NA	Lanyard
10056859	HDB-IC-BL	Blue ID Case
10056860	HDB-IC-K	Black ID Case
10056861	HDB-TS-MS	Mustard Shirt