

- If user chooses option 2 to display the inventory items (note, so far no item is added in the inventory), following is displayed:

```
"C:\College\AP\Lab 3\venv\Scripts\python.exe" "C:\College\AP\Lab 3\venv\Venkata Nara
Inventory Management System
1. Add Item in Inventory
2. Display Inventory Items
3. Search Inventory Item By Serial Code
4. Exit/End Application
Please enter your choice: 2
Inventory is empty. There are no inventory items to display! Please enter Inventory
```

- Without adding any item in the inventory, if user chooses option 3 to search an item by its serial code.

```
C:\College\AP\Lab 3\venv\Scripts\python.exe C:\College\AP\Lab 3\venv\Venkata Nara
Inventory Management System
1. Add Item in Inventory
2. Display Inventory Items
3. Search Inventory Item By Serial Code
4. Exit/End Application
Please enter your choice: 3
Inventory is empty. There are no inventory items to display! Please enter Inventory
```

- If user chooses an option that is NOT valid option, any numeric or non-numeric value that is not in the list of 1, 2, 3 and 4,

```
Inventory Management System
1. Add Item in Inventory
2. Display Inventory Items
3. Search Inventory Item By Serial Code
4. Exit/End Application
Please enter your choice: a
Invalid choice. Please enter a valid option.
Inventory Management System
```

- if user chooses option 1, to add an item, When first item is added to the inventory

```
"C:\College\AP\Lab 3\venv\Scripts\python.exe" "C:\College\AP\
Inventory Management System
1. Add Item in Inventory
2. Display Inventory Items
3. Search Inventory Item By Serial Code
4. Exit/End Application
Please enter your choice: 1
Enter item name: Dell Comp
Enter item serial number: DC123
Enter quantity of Items: 8
Enter price per unit: $586.37728
Searching if item already exists in items history
Items inventory does not have any items. Adding new items!
Item is added to inventory.
```

- A new item is added to the inventory of items.

```
Please enter your choice: 1
Enter item name: Acer Laptop
Enter item serial number: AL123
Enter quantity of Items: 6
Enter price per unit: $982.9339
Searching if item already exists in items history
Item is not in inventory.Adding item to inventory
Item is added to inventory.
```

```
Please enter your choice: 1
Enter item name: Google Chromebook
Enter item serial number: GC123
Enter quantity of Items: 12
Enter price per unit: $257.2662
Searching if item already exists in items history
Item is not in inventory.Adding item to inventory
Item is added to inventory.
```

- Displaying the report of inventory items is option 2 and it displays

```
*****
Please enter your choice: 2
*****
Venkata Narasimha Vedavyas Muppavarapu
N01583267
*****
Item Name          Item Serial Code      Item Quantity      Item Price per Unit
Dell Comp          DC123                  8                  $586.38
Acer Laptop        AL123                  6                  $982.93
Google Chromebook  GC123                  12                 $257.27
*****
```

- If user chooses option 3 to search an item from the inventory based on the serial code

```
Please enter your choice: 3
Enter item serial number to search: AL123
Item exists in inventory
*****
Venkata Narasimha Vedavyas Muppavarapu
N01583267
*****
Item Name          Item Serial Code      Item Quantity      Item Price per Unit
Acer Laptop        AL123                  6                  $982.93
*****
```

- If user chooses to search an item based on the Serial Code and Serial code does not exist in the item inventory records

```
Please enter your choice: 3
Enter item serial number to search: DC246
Item with serial number DC246 not found.
```

- Displaying the updated Quantity (price does not change):

```
Please enter your choice: 1
Enter item name: Chromebook
Enter item serial number: GC123
Enter quantity of Items: 7
Enter price per unit: $198.7632
Searching if item already exists in items history
Item exists in inventory. Updating the item Information
Item Quantity has been updated.
Inventory Management System
1. Add Item in Inventory
2. Display Inventory Items
3. Search Inventory Item By Serial Code
4. Exit/End Application
Please enter your choice: 2
*****
Venkata Narasimha Vedavyas Muppavarapu
N01583267
*****
Item Name          Item Serial Code    Item Quantity    Item Price per Unit
Dell Comp           DC123               8                $586.38
Acer Laptops        AL123               6                $982.93
Google Chrome       GC123               19               $257.28
Apple MacBook       AM123               15               $1768.53
*****
```

- Now if an item having same Serial Code added with higher item price than that is stored in the inventory, then new higher price is updated in the inventory, along with the new updated total items quantity in stock.

```
Please enter your choice: 1
Enter item name: G Chrome Book
Enter item serial number: GC123
Enter quantity of Items: 5
Enter price per unit: $276.38763
Searching if item already exists in items history
Item exists in inventory. Updating the item Information
Item Quantity has been updated.
Item Price is updated! Thankyou.
```

```

Please enter your choice: 2
*****
Venkata Narasimha Vedavyas Muppavarapu
N01583267
*****
Item Name          Item Serial Code      Item Quantity      Item Price per Unit
Dell Comp          DC123                  8                  $586.38
Acer Laptops       AL123                  6                  $982.93
Google Chrome      GC123                  24                 $276.39
Apple MacBook      AM123                  15                 $1768.53
*****

```

- If user chooses option 3 to search an item in the inventory, and the item Serial Code does not exist

```

Please enter your choice: 3
Enter item serial number to search: DC246
Item with serial number DC246 not found.
Inventory Management System

```

- When user chooses option 4, application ends (as shown above), after stating the fact that “Ending application ....”

```

Inventory Management System
1. Add Item in Inventory
2. Display Inventory Items
3. Search Inventory Item By Serial Code
4. Exit/End Application
Please enter your choice: 4
Application ending!!!!

Process finished with exit code 0

```