

First of all, when data is NOT stored in the inventory (file), following is displayed when choosing option 2:

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

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

If user chooses option 3 (search an item by Item code), and there are no items in the inventory, following is displayed:

```
Inventory Management System
    1. Add Inventory Items
    2. Display All Inventory Items
    3. Search Inventory Item By Item Serial Code
    4. Exit/End Application
Please enter your choice: 3
Inventory is empty. There are no inventory items to display! Please enter Inventory

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

If user enters invalid option, numeric value or non-numeric character, following is displayed:

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

When user chooses option 1 to add an item, following is displayed:

```
Inventory Management System
1. Add Inventory Items
2. Display All Inventory Items
3. Search Inventory Item By Item Serial Code
4. Exit/End Application
Please enter your choice: 1
Enter item name: Dell PC
Enter item serial number: DPC123
Enter quantity of Items: 9
Enter price per unit: $684.3784673
Searching if item already exists in items history
Items inventory does not have any items. Adding new items!
Item is added to inventory.
Inventory Management System
```

Add another item in the inventory (using option 1)

```
Inventory Management System
1. Add Inventory Items
2. Display All Inventory Items
3. Search Inventory Item By Item Serial Code
4. Exit/End Application
Please enter your choice: 1
Enter item name: Google Chromebook
Enter item serial number: GCP123
Enter quantity of Items: 12
Enter price per unit: $352.836628
Searching if item with serial code GCP123 already exists in items history
Item is not in inventory. Adding item Google Chromebook to inventory
Item with GCP123 added to inventory.
Inventory Management System
```

Option/Choice 2 displays all the items in inventory:

```
1. Add Inventory Items
2. Display All Inventory Items
3. Search Inventory Item By Item Serial Code
4. Exit/End Application
Please enter your choice: 2
```

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N01583267

Item Name	Item Serial Code	Item Quantity	Item Price per Unit
Dell PC	DPC123	9	\$684.38
Acer Laptop	ALP123	4	\$824.94
Google Chromebook	GCP123	12	\$352.84

Add another item – that already exists (ALP123 already exists):

Inventory Management System

1. Add Inventory Items
2. Display All Inventory Items
3. Search Inventory Item By Item Serial Code
4. Exit/End Application

Please enter your choice: 1

Enter item name: *Acer PC*

Enter item serial number: *ALP123*

Enter quantity of Items: *18*

Enter price per unit: *\$515.836683*

Searching if item with serial code ALP123 already exists in items history

Item exists in inventory. Updating the item Information

Item Quantity has been updated.

Inventory Management System

2. Display All Inventory Items
3. Search Inventory Item By Item Serial Code
4. Exit/End Application

Please enter your choice: 2

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Item Name	Item Serial Code	Item Quantity	Item Price per Unit
Dell PC	DPC123	9	\$684.38
Acer Laptop	ALP123	22	\$824.94
Google Chromebook	GCP123	12	\$352.84

Now adding another item to the inventory, ALP123. Now quantity is also updated as well as price is also increased.

Inventory Management System

1. Add Inventory Items
2. Display All Inventory Items
3. Search Inventory Item By Item Serial Code
4. Exit/End Application

Please enter your choice: 1

Enter item name: *Acer Server*

Enter item serial number: *ALP123*

Enter quantity of Items: *10*

Enter price per unit: *\$915.7836638*

Searching if item with serial code ALP123 already exists in items history

Item exists in inventory. Updating the item Information

Item Quantity has been updated.

Item Price is updated! Thankyou.

```

4. Exit/End Application
Please enter your choice: 2

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Item Name          Item Serial Code      Item Quantity      Item Price per Unit
Dell PC            DPC123                9                  $684.38
Acer Laptop        ALP123                32                 $915.78
Google Chromebook  GCP123                12                 $352.84

```

Choosing option 3 to search an item, and item does not exist:

```

Inventory Management System
1. Add Inventory Items
2. Display All Inventory Items
3. Search Inventory Item By Item Serial Code
4. Exit/End Application
Please enter your choice: 3
Enter item serial number to search: DPLC123
Item with serial number DPLC123 is not currently in inventory.

```

Now choose option 3, when item already exists.

```

Inventory Management System
1. Add Inventory Items
2. Display All Inventory Items
3. Search Inventory Item By Item Serial Code
4. Exit/End Application
Please enter your choice: 3
Enter item serial number to search: ALP123
Item is available in inventory with serial code - ALP123

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Item Name          Item Serial Code      Item Quantity      Item Price per Unit
Acer Laptop        ALP123                32                 $915.78

```

Option 4 ends the application:

```

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

```