LAB 4 – APPLCIATION PROGRAMMING

a) Enter choice 2 to display inventory, without adding items in the inventory
   +
b) Enter choice 3 to search and display inventory items, without adding any item in the inventory

```
○ ❯ py surajmandal.py

        |----------------------------------------------------------------|
        |            Welcome to the Inventory Management System          |
        |----------------------------------------------------------------|
        | 1. Add inventory items                                         |
        | 2. Display all inventory items                                 |
        | 3. Search an item                                              |
        | 4. Sales invoice    ------- To be implimented in the next lab  |
        | 5. End application                                             |
        |----------------------------------------------------------------|

 Enter your choice: 2
 Inventory does not have any item to display...

        |----------------------------------------------------------------|
        |            Welcome to the Inventory Management System          |
        |----------------------------------------------------------------|
        | 1. Add inventory items                                         |
        | 2. Display all inventory items                                 |
        | 3. Search an item                                              |
        | 4. Sales invoice    ------- To be implimented in the next lab  |
        | 5. End application                                             |
        |----------------------------------------------------------------|

 Enter your choice: 3
 Inventory does not have any item to search...

        |----------------------------------------------------------------|
        |            Welcome to the Inventory Management System          |
        |----------------------------------------------------------------|
        | 1. Add inventory items                                         |
        | 2. Display all inventory items                                 |
        | 3. Search an item                                              |
        | 4. Sales invoice    ------- To be implimented in the next lab  |
        | 5. End application                                             |
        |----------------------------------------------------------------|

 Enter your choice: ▊
```

c) Choose option other than the valid choices (1, 2, 3, or 5). It could be alphabet or numeric value

```
|------------------------------------------------------------------------|
|              Welcome to the Inventory Management System                |
|------------------------------------------------------------------------|
| 1. Add inventory items                                                 |
| 2. Display all inventory items                                         |
| 3. Search an item                                                      |
| 4. Sales invoice     -------- To be implimented in the next lab |
| 5. End application                                                     |
|------------------------------------------------------------------------|

Enter your choice: 7
         Enter a valid choice...

|------------------------------------------------------------------------|
|              Welcome to the Inventory Management System                |
|------------------------------------------------------------------------|
| 1. Add inventory items                                                 |
| 2. Display all inventory items                                         |
| 3. Search an item                                                      |
| 4. Sales invoice     -------- To be implimented in the next lab |
| 5. End application                                                     |
|------------------------------------------------------------------------|

Enter your choice: █
```

d) Add two to three items in inventory and display using option 2.

```
> py surajmandal.py
        |---------------------------------------------------------------|
        |             Welcome to the Inventory Management System        |
        |---------------------------------------------------------------|
        | 1. Add inventory items                                        |
        | 2. Display all inventory items                                |
        | 3. Search an item                                             |
        | 4. Sales invoice      ------- To be implimented in the next lab |
        | 5. End application                                            |
        |---------------------------------------------------------------|

 Enter your choice: 1
        Enter inventory Item Name: Banana
        Enter inventory item code: BNAN
        Enter inventory item quantity: 500
        Enter inventory item price per unit: 0.3

        |---------------------------------------------------------------|
        |             Welcome to the Inventory Management System        |
        |---------------------------------------------------------------|
        | 1. Add inventory items                                        |
        | 2. Display all inventory items                                |
        | 3. Search an item                                             |
        | 4. Sales invoice      ------- To be implimented in the next lab |
        | 5. End application                                            |
        |---------------------------------------------------------------|

 Enter your choice: 1
        Enter inventory Item Name: APPLE
        Enter inventory item code: APL
        Enter inventory item quantity: 100
        Enter inventory item price per unit: 1.4

        |---------------------------------------------------------------|
        |             Welcome to the Inventory Management System        |
        |---------------------------------------------------------------|
        | 1. Add inventory items                                        |
        | 2. Display all inventory items                                |
        | 3. Search an item                                             |
        | 4. Sales invoice      ------- To be implimented in the next lab |
        | 5. End application                                            |
        |---------------------------------------------------------------|

 Enter your choice: 2


------------------------------------------------------------------------------------
                                                                       Suraj Mandal
                                                                         N01537188

------------------------------------------------------------------------------------
        Name              Serial Code           Quantity          Price per unit
        Banana              BNAN                   500                  $0.3
        APPLE               APL                    100                  $1.4
------------------------------------------------------------------------------------
```

e) Add an item having identical Serial Code to an existing item in the inventory to show that quantity is updated without updating the item price

```
Enter your choice: 2


_____
                                                                          Suraj Mandal
                                                                           N01537188


_____
            Name                  Serial Code              Quantity         Price per unit
          Banana                      BNAN                    150                  $0.5
          APPLE                        APL                    100                  $1.4
_____

Enter your choice: 1
        Enter inventory Item Name: Banana
        Enter inventory item code: BNAN
        Enter inventory item quantity: 200
        Enter inventory item price per unit: 0.45

        Banana has been added to the record


        |_____|
        |        Welcome to the Inventory Management System      |
        |_____|
        | 1. Add inventory items                                 |
        | 2. Display all inventory items                         |
        | 3. Search an item                                      |
        | 4. Sales invoice    ------- To be implimented in the next lab |
        | 5. End application                                     |
        |_____|

Enter your choice: 2


_____
                                                                          Suraj Mandal
                                                                           N01537188


_____
            Name                  Serial Code              Quantity         Price per unit
          Banana                      BNAN                    350                  $0.5
          APPLE                        APL                    100                  $1.4
_____
```

NEXT PAGE

f) Add an item having identical Serial Code to existing item in inventory, but having higher item unit price to show the update in inventory quantity as well as inventory price (unit price)

```
Enter your choice: 1
        Enter inventory Item Name: Apple
        Enter inventory item code: APL
        Enter inventory item quantity: 100
        Enter inventory item price per unit: 2.0

        Apple has been added to the record

        |-------------------------------------------------------------|
        |            Welcome to the Inventory Management System        |
        |-------------------------------------------------------------|
        | 1. Add inventory items                                      |
        | 2. Display all inventory items                              |
        | 3. Search an item                                           |
        | 4. Sales invoice     -------- To be implmented in the next lab |
        | 5. End application                                          |
        |-------------------------------------------------------------|

Enter your choice: 2


-----------------------------------------------------------------------------------------------------
                                                                                    Suraj Mandal
                                                                                     N01537188


-----------------------------------------------------------------------------------------------------
            Name                  Serial Code                 Quantity              Price per unit
            Banana                   BNAN                        350                     $0.5
            APPLE                    APL                         200                     $2.0
-----------------------------------------------------------------------------------------------------
```

g) Search inventory when Item is in the inventory

```
        |-------------------------------------------------------------|
        |            Welcome to the Inventory Management System        |
        |-------------------------------------------------------------|
        | 1. Add inventory items                                      |
        | 2. Display all inventory items                              |
        | 3. Search an item                                           |
        | 4. Sales invoice     -------- To be implmented in the next lab |
        | 5. End application                                          |
        |-------------------------------------------------------------|

Enter your choice: 3
Enter serial code of the item: APL


-----------------------------------------------------------------------------------------------------
                                                                                    Suraj Mandal
                                                                                     N01537188


-----------------------------------------------------------------------------------------------------
            Name                  Serial Code                 Quantity              Price per unit
            APPLE                    APL                         200                     $2.0
-----------------------------------------------------------------------------------------------------
```

h) Search inventory when Item is NOT in the inventory.

```
|----------------------------------------------------------------|
|           Welcome to the Inventory Management System           |
|----------------------------------------------------------------|
| 1. Add inventory items                                         |
| 2. Display all inventory items                                 |
| 3. Search an item                                              |
| 4. Sales invoice    ------- To be implimented in the next lab  |
| 5. End application                                             |
|----------------------------------------------------------------|

Enter your choice: 3
Enter serial code of the item: PAL
        Item not found..
```
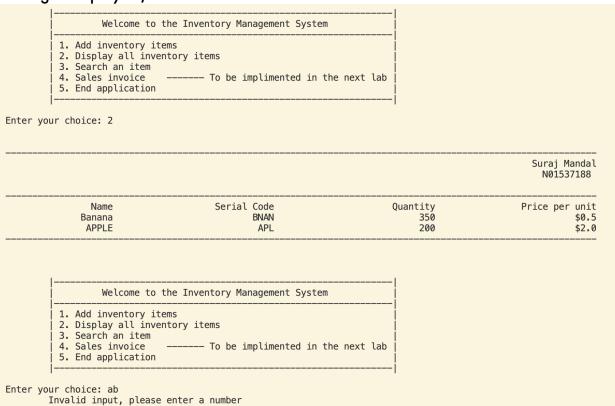
i) Enter valid choice as option as well as invalid choice as an option (to show the messages displayed)

```
|----------------------------------------------------------------|
|           Welcome to the Inventory Management System           |
|----------------------------------------------------------------|
| 1. Add inventory items                                         |
| 2. Display all inventory items                                 |
| 3. Search an item                                              |
| 4. Sales invoice    ------- To be implimented in the next lab  |
| 5. End application                                             |
|----------------------------------------------------------------|

Enter your choice: 2


----------------------------------------------------------------------------------------------------------
                                                                                              Suraj Mandal
                                                                                                N01537188


----------------------------------------------------------------------------------------------------------
           Name                      Serial Code                 Quantity              Price per unit
           Banana                       BNAN                        350                        $0.5
           APPLE                        APL                         200                        $2.0
----------------------------------------------------------------------------------------------------------



            |----------------------------------------------------------------|
            |           Welcome to the Inventory Management System           |
            |----------------------------------------------------------------|
            | 1. Add inventory items                                         |
            | 2. Display all inventory items                                 |
            | 3. Search an item                                              |
            | 4. Sales invoice    ------- To be implimented in the next lab  |
            | 5. End application                                             |
            |----------------------------------------------------------------|

Enter your choice: ab
        Invalid input, please enter a number
```

j) Demonstrate how application ends

```
|------------------------------------------------------------------|
|              Welcome to the Inventory Management System          |
|------------------------------------------------------------------|
| 1. Add inventory items                                           |
| 2. Display all inventory items                                   |
| 3. Search an item                                                |
| 4. Sales invoice     ------- To be implimented in the next lab   |
| 5. End application                                               |
|------------------------------------------------------------------|

Enter your choice: 5
surajmandal@suraj-m1 ~/Desktop/humber/5003-ap/lab4 master* ↑
○ ❯ ▊
```