Class Exercise:

Tuple v2

Exercise:

You are working as a manager at a clothing store, and you need to create a program to manage the inventory of different clothing items. Your program should allow you to perform various operations on a tuple of clothing items, such as adding new items, updating quantities, and generating sales reports. The program should provide a menu-based interface for the user to select and perform different operations.

Here are the operations you need to implement:

1. Print the list of clothing items and their quantities.
2. Check if a specific clothing item is in stock.
3. Update the quantity of a specific clothing item.
4. Generate a sales report for a specific clothing item.
5. Add a new clothing item to the inventory.
6. Exit the program.

Instructions:

* Create a tuple called "inventory" containing at least 5 different clothing items as tuples. Each clothing item tuple should consist of the item name and its quantity.
* Display a menu to the user with the available operations (1-6).
* Based on the user's choice, perform the corresponding operation.
* Use a while loop to repeatedly display the menu until the user chooses to exit (option 6).

Hints:

* Use a for loop to iterate over the inventory tuple for certain operations.
* You can use if and else statements to handle different menu choices.
* To update the quantity of a specific item, you can convert the inventory tuple to a list, update the quantity, and then convert it back to a tuple.

def print\_inventory(inventory):

# Your code here

def check\_stock(inventory):

# Your code here

def update\_quantity(inventory):

# Your code here

def generate\_sales\_report(inventory):

# Your code here

def add\_item(inventory):

# Your code here

inventory = (

    ("T-Shirt", 20),

    ("Jeans", 10),

    ("Dress", 15),

    ("Sweater", 12),

    ("Jacket", 8)

)

while True:

# Your code here

Menu:

1. Print the list of clothing items and quantities

2. Check if a specific clothing item is in stock

3. Update the quantity of a specific clothing item

4. Generate a sales report for a specific clothing item

5. Add a new clothing item to the inventory

6. Exit

Enter your choice (1-6): 1

Inventory:

T-Shirt: 20

Jeans: 10

Dress: 15

Sweater: 12

Jacket: 8

Menu:

1. Print the list of clothing items and quantities

2. Check if a specific clothing item is in stock

3. Update the quantity of a specific clothing item

4. Generate a sales report for a specific clothing item

5. Add a new clothing item to the inventory

6. Exit

Enter your choice (1-6): 2

Enter the item name: Dress

Dress is in stock.

Menu:

1. Print the list of clothing items and quantities

2. Check if a specific clothing item is in stock

3. Update the quantity of a specific clothing item

4. Generate a sales report for a specific clothing item

5. Add a new clothing item to the inventory

6. Exit

Enter your choice (1-6): 3

Enter the item name: Jeans

Enter the new quantity: 5

Quantity of Jeans has been updated to 5.

Menu:

1. Print the list of clothing items and quantities

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4. Generate a sales report for a specific clothing item

5. Add a new clothing item to the inventory

6. Exit

Enter your choice (1-6): 4

Enter the item name: T-Shirt

Sales report for T-Shirt:

Current quantity: 20

Enter the sold quantity: 8

Remaining quantity: 12

Menu:

1. Print the list of clothing items and quantities

2. Check if a specific clothing item is in stock

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4. Generate a sales report for a specific clothing item

5. Add a new clothing item to the inventory

6. Exit

Enter your choice (1-6): 5

Enter the item name: Skirt

Enter the item quantity: 7

Skirt has been added to the inventory.

Menu:

1. Print the list of clothing items and quantities

2. Check if a specific clothing item is in stock

3. Update the quantity of a specific clothing item

4. Generate a sales report for a specific clothing item

5. Add a new clothing item to the inventory

6. Exit

Enter your choice (1-6): 1

Inventory:

T-Shirt: 12

Jeans: 5

Dress: 15

Sweater: 12

Jacket: 8

Skirt: 7

Menu:

1. Print the list of clothing items and quantities

2. Check if a specific clothing item is in stock

3. Update the quantity of a specific clothing item

4. Generate a sales report for a specific clothing item

5. Add a new clothing item to the inventory

6. Exit

Enter your choice (1-6): 6

Exiting the program...