Class Exercise:

Tuple

Exercise Description:

You are working at a grocery store, and your manager has assigned you a task to manage the inventory of fruits. You need to create a program that allows you to perform various operations on a tuple containing the names of different fruits. Your 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 fruits.
2. Check if a specific fruit is present in the list.
3. Count the number of occurrences of a specific fruit.
4. Find the index of a specific fruit.
5. Sort the fruits in alphabetical order.
6. Exit the program.

Instructions:

1. Create a tuple called "fruits" containing at least 5 different fruit names.
2. Display a menu to the user with the available operations (1-6).
3. Based on the user's choice, perform the corresponding operation.
4. Use a while loop to repeatedly display the menu until the user chooses to exit (option 6).

Hints:

* You can use a for loop to iterate over the fruits tuple for certain operations.
* Use if and else statements to handle different menu choices.
* You can define separate functions for each operation to keep the code organized and modular.

def print\_fruits(fruits):

# Your code here

def check\_fruit(fruits):

# Your code here

def count\_fruit(fruits):

# Your code here

def find\_index(fruits):

# Your code here

def sort\_fruits(fruits):

# Your code here

fruits = ("apple", "banana", "orange", "grape", "kiwi")

while True:

# Your code here

Menu:

1. Print the list of fruits

2. Check if a specific fruit is present

3. Count the number of occurrences of a specific fruit

4. Find the index of a specific fruit

5. Sort the fruits in alphabetical order

6. Exit

Enter your choice (1-6): 1

List of fruits:

apple

banana

orange

grape

kiwi

Menu:

1. Print the list of fruits

2. Check if a specific fruit is present

3. Count the number of occurrences of a specific fruit

4. Find the index of a specific fruit

5. Sort the fruits in alphabetical order

6. Exit

Enter your choice (1-6): 2

Enter the fruit name: orange

orange is present in the list.

Menu:

1. Print the list of fruits

2. Check if a specific fruit is present

3. Count the number of occurrences of a specific fruit

4. Find the index of a specific fruit

5. Sort the fruits in alphabetical order

6. Exit

Enter your choice (1-6): 3

Enter the fruit name: banana

banana appears 1 time(s) in the list.

Menu:

1. Print the list of fruits

2. Check if a specific fruit is present

3. Count the number of occurrences of a specific fruit

4. Find the index of a specific fruit

5. Sort the fruits in alphabetical order

6. Exit

Enter your choice (1-6): 4

Enter the fruit name: grape

grape is found at index 3.

Menu:

1. Print the list of fruits

2. Check if a specific fruit is present

3. Count the number of occurrences of a specific fruit

4. Find the index of a specific fruit

5. Sort the fruits in alphabetical order

6. Exit

Enter your choice (1-6): 5

Sorted fruits:

apple

banana

grape

kiwi

orange

Menu:

1. Print the list of fruits

2. Check if a specific fruit is present

3. Count the number of occurrences of a specific fruit

4. Find the index of a specific fruit

5. Sort the fruits in alphabetical order

6. Exit

Enter your choice (1-6): 6

Exiting the program...