**Demonstrate the use of index() and count() methods on tuple data type.**

**Code**

# List of fruits

fruits = ('apple', 'banana', 'cherry', 'date', 'banana', 'elderberry','kiwi','banana','mango','apricot')

def main():

print("Welcome To The Fruit Tuple List!")

print("Available fruits:")

for fruit in fruits:

print(f"- {fruit}")

while True:

print("\nChoose an option:")

print("1. Find the index of a fruit")

print("2. Count how many times a fruit appears")

print("3. Exit")

choice = input("Enter your choice (1, 2, or 3): ")

if choice == '1':

fruit\_to\_find = input("Enter the name of the fruit to find its index: ")

try:

index = fruits.index(fruit\_to\_find)

print(f"The index of '{fruit\_to\_find}' is: {index}")

except ValueError:

print(f"'{fruit\_to\_find}' is not in the fruit list.")

elif choice == '2':

fruit\_to\_count = input("Enter the name of the fruit to count its occurrences: ")

count = fruits.count(fruit\_to\_count)

print(f"The fruit '{fruit\_to\_count}' appears {count} time(s) in the list.")

elif choice == '3':

print("Exiting the program. Goodbye!")

break

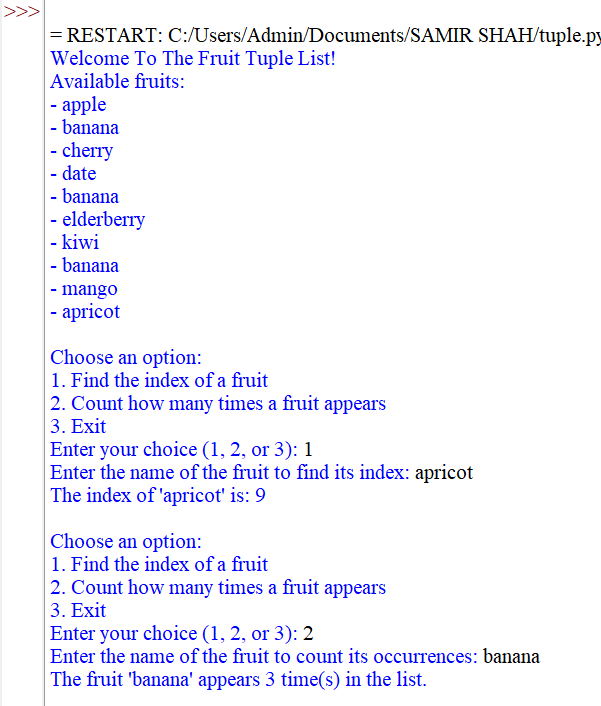
else:

print("Invalid choice. Please choose again.")

if \_\_name\_\_ == "\_\_main\_\_":

main()

**OUTPUT :-**

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