PYTHON PROGRAMMING

LAB-14 Answers

Tuples

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1. Write a Python program to find the number of times 4 appears in the tuple.

 Input: tuple x = (2, 4, 5, 6, 2, 3, 4, 4, 7 )

Output: 3

Code:

x = (2, 4, 5, 6, 2, 3, 4, 4, 7) #input the numbers.

count = x.count(4) #counting the number of times 4 is repeating with the help of count function.

print(count) #printing the final answer(count).

Output:

3

2.Write a Python program to convert a list to a tuple.

Input: list x = [5, 10, 7, 4, 15, 3]

Output: (5, 10, 7, 4, 15, 3)

Code:

x = [5, 10, 7, 4, 15, 3] # inputing the list of numbers.

converted\_tuple = tuple(x[:]) #converting list to tuple.

print(converted\_tuple) #printing the output(tuple).

Output:

(5, 10, 7, 4, 15, 3)

3. Write a Python program to calculate the sum of the numbers in a given tuple.

 Input: tuple list = [(1, 2), (3, 4), (5, 6)]

output: sum of the number:21

Code:

tuple\_list = [(1, 2), (3, 4), (5, 6)] #inputing the numbers as tuples.

total\_sum = sum([sum(tuple) for tuple in tuple\_list]) # calculating the sum of tuples.

print("Sum of the numbers:", total\_sum) #printing the output(sum of tuples).

Output:

Sum of the numbers: 21

4. Write a Python program to find repeated items in a tuple.

Tuple data = (0,11,1,2,2,2,33,1)

Code:

tuple\_data = (0, 11, 1, 2, 2, 2, 33, 1) #inputing the numbers as tuple data.

repeated\_items = set(item for item in tuple\_data if tuple\_data.count(item) > 1) #finding the repeated numbers in the given tuple data.

print("Repeated items in the tuple:", repeated\_items) #printing the output(repeated\_items).

Output:

Repeated items in the tuple: {1, 2}