

PYTHON LAB – 14

TUPLES

NAME: Keerthana K R

ID: AF0363623

QUESTIONS

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

Input:

```
tuplex = (2, 4, 5, 6, 2, 3, 4, 4, 7 )
```

Output: 3

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

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

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

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

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

output: sum of the number:21

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

```
tuple_data = (0,11,1,2,2,2,33,1)
```

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

Input:

tuplex = (2, 4, 5, 6, 2, 3, 4, 4, 7)

Output: 3

```
tuple = (2, 4, 5, 6, 2, 3, 4, 4, 7) #creating tuple
Count_of_4 = tuple.count(4) #counting number of times 4
appeared using count function
print("The tuple is : ",tuple) #printing tuple
print("The number of times 4 appeared is : ",Count_of_4)
#printing the count
```

OUTPUT:

The tuple is : (2, 4, 5, 6, 2, 3, 4, 4, 7)

The number of times 4 appeared is : 3

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

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

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

```
list = [5, 10, 7, 4, 15, 3] #creating list
print("The list is : ",list) #printing list
print(type(list)) #printing type of list
t1 = tuple(list) #converting list to tuple
print("The tuple is : ",t1) #printing tuple
print(type(t1)) #printing type of t1
```

OUTPUT:

The list is : [5, 10, 7, 4, 15, 3]

<class 'list'>

The tuple is : (5, 10, 7, 4, 15, 3)

<class 'tuple'>

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

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

output: sum of the number : 21

```
t1 = ((1, 2), (3, 4), (5, 6)) #creating tuple
Sum = 0 #Assigning value 0 to Sum
for i in t1: #iterating each tuple inside tuple
    for ele in i: #iterating each element in each tuple
        Sum = Sum + ele #Adding all elements
print("The tuple is : ",t1) #printing tuple
print("The sum of all elements in tuple is : ",Sum)
#printing total
```

OUTPUT:

The tuple is : ((1, 2), (3, 4), (5, 6))

The sum of all elements in tuple is : 21

4. Write a Python program to find repeated items in a tuple.
tuple_data = (0,11,1,2,2,2,33,1)

```
t1 = (0,11,1,2,2,2,33,1) #creating tuple
rep =[] #creating empty list because tuple is immutable
for i in t1: #iterating each element in tuple
    if(t1.count(i)>1 and i not in rep): #checking each
element is appeared more than once and not in list
        rep.append(i) #if condition is true, adding element to
list
print("The tuple is : ",t1) #printing tuple
print("The repeated items are : ",rep) #printing repeated
items
```

OUTPUT:

The tuple is : (0, 11, 1, 2, 2, 2, 33, 1)

The repeated items are : [1, 2]