

# PYTHON PROGRAMMING

## LAB-14 Answers

### Tuples

Hareesha H M

AF0364330

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}