

Experiment 2.4

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Branch: CSE

Section/Group:607A

Semester: 4th

Date of Performance: 01/04/2022

Subject Name:Programming in Python Lab

Subject Code: 22E-20CSP-259

1) Aim/Overview of the practical:

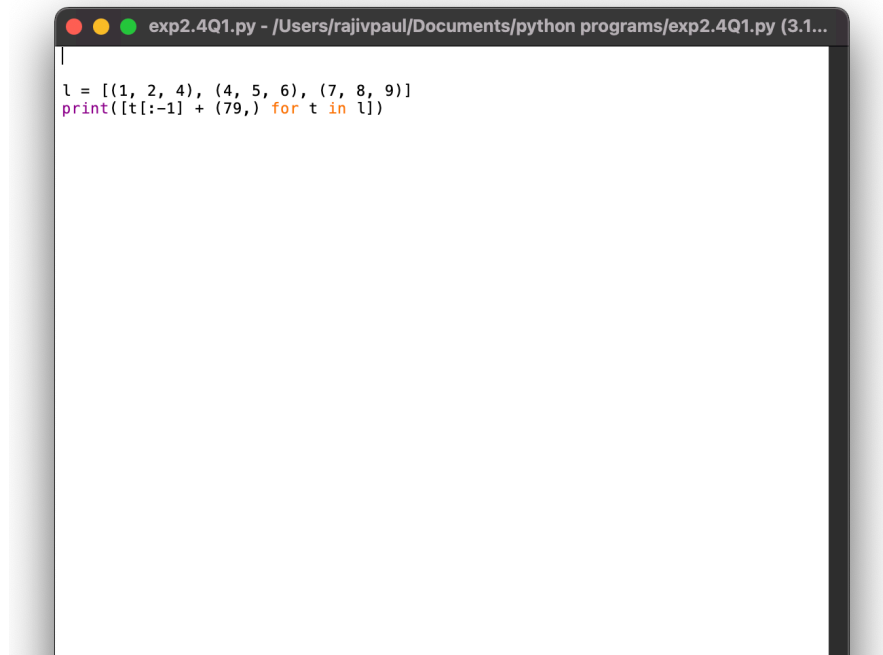
Q1. Write a Python program to replace last value of tuples in a list

2) Task to be done/ Which logistics used:

To write a python program to replace last value of tuples in a list

3) Algorithm/Flowchart (For programming based labs):

4) Steps for experiment/practical/Code:



```
exp2.4Q1.py - /Users/rajivpaul/Documents/python programs/exp2.4Q1.py (3.1...  
l = [(1, 2, 4), (4, 5, 6), (7, 8, 9)]  
print([t[:-1] + (79,) for t in l])
```

5. Observations/Discussions/ Complexity Analysis:

6. Result/Output/Writing Summary:



```
IDLE Shell 3.10.2
Python 3.10.2 (v3.10.2:a58ebcc701, Jan 13 2022, 14:50:16) [Clang 13.0.0 (clang-1300.0.29.30)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: /Users/rajivpaul/Documents/python programs/exp2.4Q1.py =====
>>> [(1, 2, 79), (4, 5, 79), (7, 8, 79)]
```

1) Aim/Overview of the practical:

Q2. Write a Python program to remove an empty tuple(s) from a list of tuples

2) Task to be done/ Which logistics used:

To write a python program to remove an empty tuple(s) from a list of tuples

3) Algorithm/Flowchart (For programming based labs):

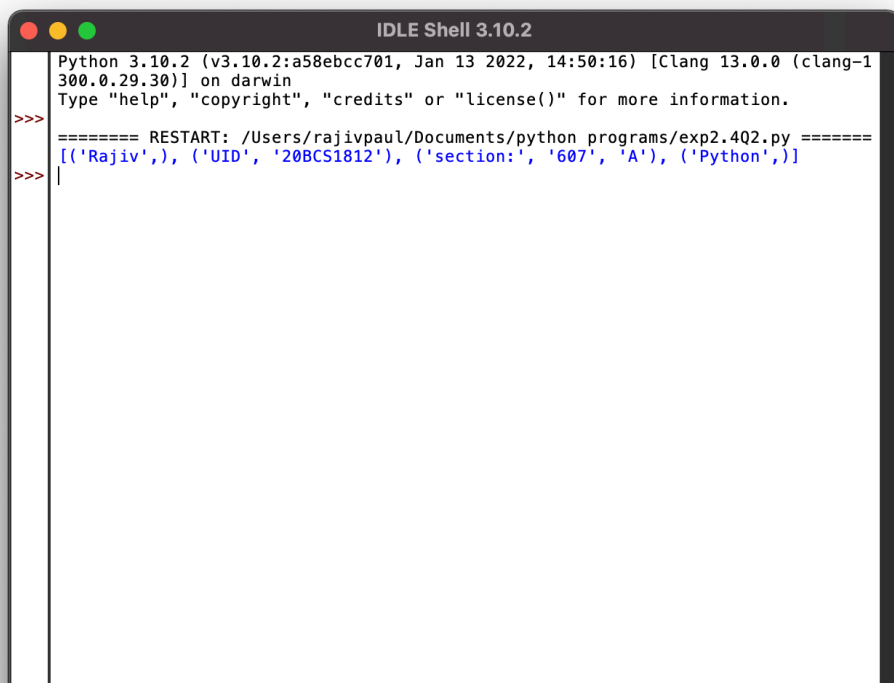
4) Steps for experiment/practical/Code:

```
exp2.4Q2.py - /Users/rajivpaul/Documents/python programs/exp2.4Q2.py (3.10.2)

L = [(), ('Rajiv',), ('UID', '20BCS1812'), ('section:', '607', 'A'), ('Python',),()]
L = [t for t in L if t]
print(L)
```

5. Observations/Discussions/ Complexity Analysis:

6. Result/Output/Writing Summary:



```
Python 3.10.2 (v3.10.2:a58ebcc701, Jan 13 2022, 14:50:16) [Clang 13.0.0 (clang-1300.0.29.30)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: /Users/rajivpaul/Documents/python programs/exp2.4Q2.py =====
[('Rajiv',), ('UID', '20BCS1812'), ('section:', '607', 'A'), ('Python',)]
>>> |
```

1) Aim/Overview of the practical:

Q3. Write a Python program calculate the product, multiplying all the numbers of a given tuple.

2) Task to be done/ Which logistics used:

To write program calculate the product, multiplying all the numbers of a given tuple.

3) Algorithm/Flowchart (For programming based labs):

4) Steps for experiment/practical/Code:

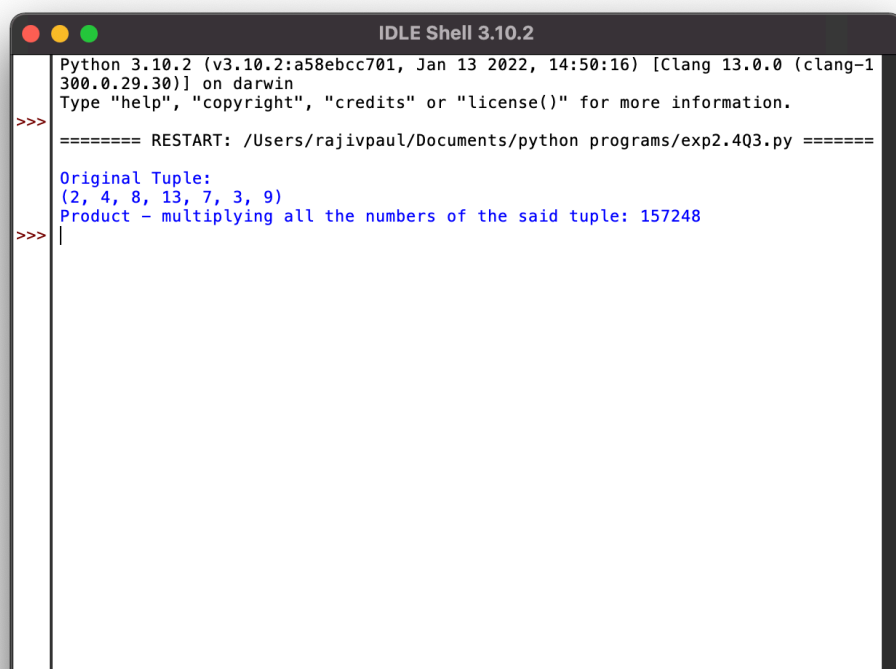
```
exp2.4Q3.py - /Users/rajivpaul/Documents/python programs/exp2.4Q3.py (3.10.2)

def mutiple_tuple(num):
    temp = list(num)
    product = 1
    for x in temp:
        product *= x
    return product

num = (2, 4, 8, 13, 7, 3, 9)
print ("\nOriginal Tuple: ")
print(num)
print("Product - multiplying all the numbers of the said tuple:",mutiple_tuple(num))
```

5. Observations/Discussions/ Complexity Analysis:

6. Result/Output/Writing Summary:



```
IDLE Shell 3.10.2
Python 3.10.2 (v3.10.2:a58ebcc701, Jan 13 2022, 14:50:16) [Clang 13.0.0 (clang-1300.0.29.30)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: /Users/rajivpaul/Documents/python programs/exp2.4Q3.py =====
Original Tuple:
(2, 4, 8, 13, 7, 3, 9)
Product - multiplying all the numbers of the said tuple: 157248
>>> |
```

1) Aim/Overview of the practical:

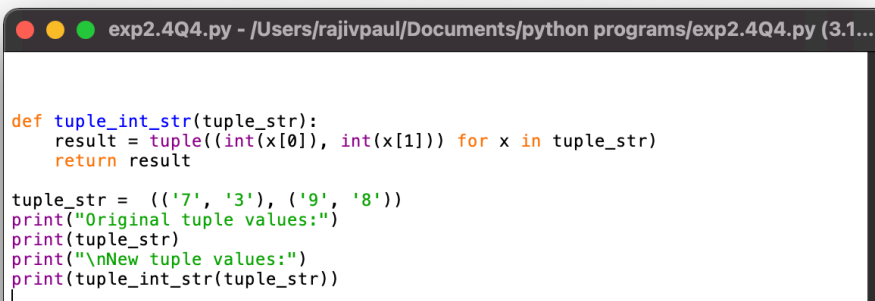
Q4. Write a Python program to convert a tuple of string values to a tuple of integer values

2) Task to be done/ Which logistics used:

To write a python program to convert a tuple of string values to a tuple of integer values

3) Algorithm/Flowchart (For programming based labs):

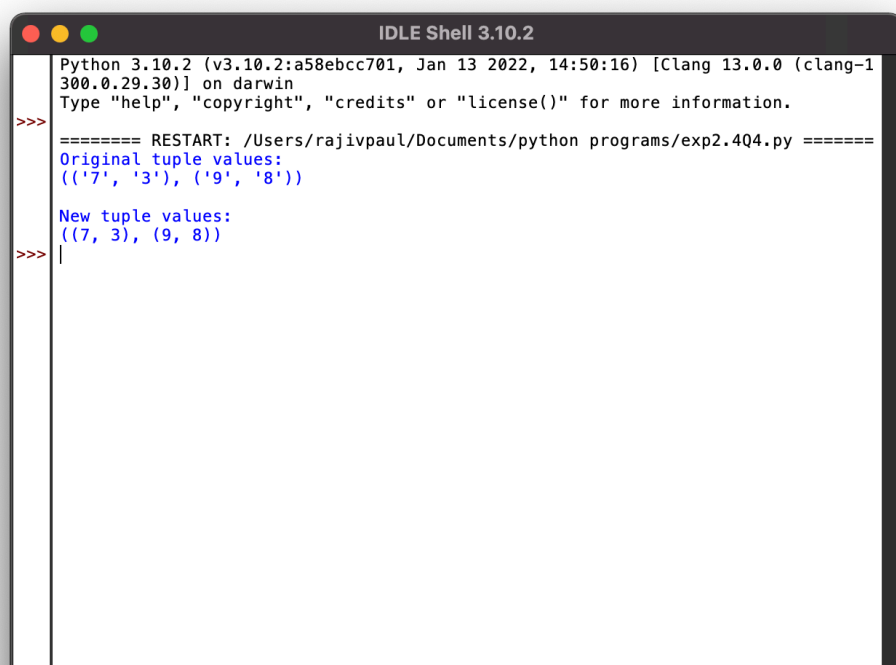
4) Steps for experiment/practical/Code:



```
def tuple_int_str(tuple_str):  
    result = tuple((int(x[0]), int(x[1])) for x in tuple_str)  
    return result  
  
tuple_str = (('7', '3'), ('9', '8'))  
print("Original tuple values:")  
print(tuple_str)  
print("\nNew tuple values:")  
print(tuple_int_str(tuple_str))
```


5. Observations/Discussions/ Complexity Analysis:

6. Result/Output/Writing Summary:



```
Python 3.10.2 (v3.10.2:a58ebcc701, Jan 13 2022, 14:50:16) [Clang 13.0.0 (clang-1300.0.29.30)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: /Users/rajivpaul/Documents/python programs/exp2.4Q4.py =====
Original tuple values:
(('7', '3'), ('9', '8'))

New tuple values:
((7, 3), (9, 8))
>>> |
```

1) Aim/Overview of the practical:

Q5. Write a Python program to check if a specified element presents in a tuple of tuples

2) Task to be done/ Which logistics used:

To write a python program to check if a specified element presents in a tuple of tuples

3) Algorithm/Flowchart (For programming based labs):

4) Steps for experiment/practical/Code:

```
exp2.4Q5.py - /Users/rajivpaul/Documents/python programs/exp2.4Q5.py (3.1...  
  
T = [('Rajiv','Paul'),('UID','20BCS1812'),('section','607A'),('Python',2.4)]  
print("Given tuple: ",T)  
n=input('Enter any thing to search in tuple:')  
if any( n in i for i in T):  
    print("present")  
else :  
    print("Not present")
```

5. Observations/Discussions/ Complexity Analysis:

6. Result/Output/Writing Summary:

```
IDLE Shell 3.10.2
Python 3.10.2 (v3.10.2:a58ebcc701, Jan 13 2022, 14:50:16) [Clang 13.0.0 (clang-1300.0.29.30)] on
darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: /Users/rajivpaul/Documents/python programs/exp2.4Q5.py =====
Given tuple: [('Rajiv', 'Paul'), ('UID', '20BCS1812'), ('section', '607A'), ('Python', 2.4)]
Enter any thing to search in tuple:Python
present
>>>
===== RESTART: /Users/rajivpaul/Documents/python programs/exp2.4Q5.py =====
Given tuple: [('Rajiv', 'Paul'), ('UID', '20BCS1812'), ('section', '607A'), ('Python', 2.4)]
Enter any thing to search in tuple:Lab
Not present
>>>
```

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			