# Solutions for Session 8

#### Task 3

Reverse the tuple(Hint: use slicing.)

tuple1 = (10, 20, 30, 40, 50)  
tuple1 = tuple1[::-1]  
print(tuple1)

(50, 40, 30, 20, 10)

#### Task 4

Count the number of occurrences of item 50 from the given tuple.

tuple1 = (50, 10, 60, 70, 50)

tuple1 = (50, 10, 60, 70, 50)  
print(tuple1.count(50))

2

#### Task 5

Access value 20 from the given tuple.

tuple1 = ("Orange", [10, 20, 30], (5, 15, 25)) (Hint: use indexing)

tuple1 = ("Orange", [10, 20, 30], (5, 15, 25))  
  
*# understand indexing*  
*# tuple1[0] = 'Orange'*  
*# tuple1[1] = [10, 20, 30]*  
*# list1[1][1] = 20*  
  
print(tuple1[1][1])

20

#### Task 6

Create a tuple with a single item 80

tuple1= (80, )  
print(tuple1)

(80,)

#### Task 7

Write a Python program to iterate over dictionaries using loops for the given dictionary.

d = {'x': 10, 'y': 20, 'z': 30}

d = {'x': 10, 'y': 20, 'z': 30}   
**for** dict\_key, dict\_value **in** d.items():  
 print(dict\_key,'->',dict\_value)

x -> 10  
y -> 20  
z -> 30

#### TASK 8

Write a Python script to print a dictionary where the keys are numbers between 1 and 15 (both included) and the values are squares of keys

d=dict()  
**for** x **in** range(1,16):  
 d[x]=x\*\*2  
print(d)

{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100, 11: 121, 12: 144, 13: 169, 14: 196, 15: 225}

#### Task 9

Write a Python program to check whether a dictionary is empty or not. (Hint: use boolean)

my\_dict = {}  
  
**if** **not** bool(my\_dict):  
 print("Dictionary is empty")

Dictionary is empty

#### Task 10

Create a dictionary by extracting the keys from the given dictionary.

sampleDict = {"name": "Kelly", "age":25, "salary": 8000, "city": "New York" }

my\_dict = {'name':'Kelly','age':'25','salary':'8000','city':'New york'}  
  
**for** i **in** my\_dict:  
 print(i)

name  
age  
salary  
City

#### Task 11

Write a program to rename a key city to a location in the following dictionary.

sample\_dict = {"name": "Kelly", "age":25, "salary": 8000, "city": "New York"}

dictionary = {"name": "Kelly", "age":25, "salary":8000}  
  
dictionary["last\_name"] = dictionary.pop("name")  
  
print(dictionary)

{'age': 25, 'salary': 8000, 'last\_name': 'Kelly'}