

Assignment - 16 Tuple

1. Write a python script to store multiple items in a single variable (Items are “Java” ,“Python” , “SQL” , “C”) using tuple.

```
t1=("java","python","sql","c" )  
print(t1)
```

2. Write a python program to store only one item using tuple.

```
t1=tuple([int(x) for x in input("enter elements by using comma ").split(',')])  
print(t1)
```

3. Write a python program to reverse the tuple.

```
t1=(1,2,3,4,5)  
t2=t1[5::-1]  
print(t2)
```

4. Write a python program to Swap two tuples in Python.

```
t1=(1,2,3,4,5)  
t2=(6,7,8,9,)  
t1,t2=t2,t1  
print(t1,t2)
```

5. Write a python program to check if all items in the tuple are the same.

```
t2=(3,4,5,6)  
print(all(x==t2[0] for x in t2))
```

6. Write a python program to divide the tuple into four variables. tuple1=(100, 200, 300, 400)

```
tuple1=(100, 200, 300, 400)  
a,b,c,d=tuple1  
print(a,b,c,d,sep="\n")
```

7. Write a python program to copy elements 4 and 5 from the following tuple into a new tuple. tuple1=(1,2,3,4,5,6)

```
t1=(1,2,3,4,5,6)  
t2=t1[3],t1[4]  
print(t2)
```

8. Write a python program to Sort a tuple of tuples by the second item. tuple1 = (('a', 21),('b', 37),('c', 11), ('d',29))

```
t= (('a', 21),('b', 37),('c', 11), ('d',29))  
l1=list(t)  
l2=l1.sort(key=lambda item:item[1])  
print(l1)  
print(l2)
```

9. Write a python program to print the value 20 from given nested tuple

```
tuple1 = ("Python", [10, 20, 30], (2, 4, 16))
```

```
tuple1 = ("Python", [10, 20, 30], (2, 4, 16))
```

```
t2=tuple1[1][1]
```

```
print(t2)
```

10. Write a python program to change the first item (22) of a list within the following tuple to 222.

```
tuple1 = (11, [22, 33], 44, 55)
```

```
tuple1 = (11, [22, 33], 44, 5)
```

```
tuple1[1][0]=222
```

```
print(tuple1)
```