

Python Programming - 2301CS404

Lab - 6

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Tuple

01) WAP to find sum of tuple elements.

```
In [1]: t1 = (1,2,3,4,5,6,7)
    sum=0
    for i in t1:
        sum+=i
    print(sum)
```

02) WAP to find Maximum and Minimum K elements in a given tuple.

```
In [21]: t1 = (83,99,41,3,10,23,63,65)
    k = int(input("Enter elements k value:"))
    l1 = list(t1)
    l1.sort()
    t2 = tuple(l1)
    print("Minimum elements:",t2[:k],"\nMaximun elements:",t2[-k:])

Minimum elements: (3, 10)
    Maximun elements: (83, 99)
```

03) WAP to find tuples which have all elements divisible by K from a list of tuples.

```
In [8]:
    t1=[(2,3,4),(2,4,6),(3,6,9)]
    k = int(input("Enter divisible num:"))
    ans=[]
    for tup in t1:
        count=0
        for i in tup:
            if(i%k!=0):
                 count+=1
        if(count == 0):
                  ans.append(tup)
    print(ans)
```

04) WAP to create a list of tuples from given list having number and its cube in each tuple.

```
In [32]: li = [1,2,3,4,5,6,7,8,9]
t1 = [(i,i**3) for i in li]
print(t1)

[(1, 1), (2, 8), (3, 27), (4, 64), (5, 125), (6, 216), (7, 343), (8, 512), (9, 72 9)]
```

05) WAP to find tuples with all positive elements from the given list of tuples.

Positive Elements Tuple: [(4, 5, 6), (10, 11, 12)]

06) WAP to add tuple to list and vice – versa.

07) WAP to remove tuples of length K.

```
In [19]: t1 = [(1, 2, 3), (4, 5), (6, 7, 8, 9), (10, 11)]
k = int(input("Length of tuple to remove: "))
li=[]
for i in t1:
    if len(i)!=k:
        li.append(i)
print("List after removing:", li)
List after removing: [(4, 5), (6, 7, 8, 9), (10, 11)]
```

08) WAP to remove duplicates from tuple.

```
In [24]: t1 = (1,1,2,3,3,4,5,2,4,1,8,6,9,2,3,5,1,4)
li = []
for tup in t1:
    if tup not in li:
        li.append(tup)
t2 = tuple(li)
print(t2)

(1, 2, 3, 4, 5, 8, 6, 9)
```

09) WAP to multiply adjacent elements of a tuple and print that resultant tuple.

10) WAP to test if the given tuple is distinct or not.

Distinct

```
In [ ]:
```