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## Python Programming - 2301CS404

Lab - 6

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## **Tuple**

01) WAP to find sum of tuple elements.

```
In [17]: tuple = (1,2,3,4,5)
total = sum(tuple)
print ("sum of tuple: ",total)
```

sum of tuple: 15

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

```
In [71]: tuple = (1,2,6,5,7,4)
    k = int (input("Enter value of k: "))
    t1 = sorted (set(tuple))
    print(t1 [k:])
    print(t1 [-k:])
[6, 7]
[4, 5, 6, 7]
```

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

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```
In [51]: listoftuple = [(2,4),(6,7,8,9,0)]
k = int(input("Enter K:"))
ans = []
for i in listoftuple:
    for j in i:
        if(j%k!=0):
            break;
    else:
        ans.append(i)
print(ans)
[(6, 7, 8, 9, 0)]
```

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

```
In [75]: numbers = [1, 2, 3, 4, 5]
    result = [(n, n**3) for n in numbers]
    print(result)
    [(1, 1), (2, 8), (3, 27), (4, 64), (5, 125)]
```

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

```
In [66]: listoftup = [(2,4,-1,-2,),(6,7,8,9,0),(-1,0),(2,5,3)]
ans = []
for i in listoftup:
    for j in i:
        if(j<0):
        break;
else:
        ans.append(i)
print(ans)

[(6, 7, 8, 9, 0), (2, 5, 3)]</pre>
```

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

### 07) WAP to remove tuples of length K.

```
In [103... list_of_tuple = [(1, 2), (3, 4, 5), (6,), (7, 8, 9), (10, 11)]
```

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```
k = 2
result = [t for t in list_of_tuple if len(t) != k]
print("List after removing tuples of length", k, ":", result)
```

08) WAP to remove duplicates from tuple.

```
In [77]: tuple = (1,2,2,3,3,3,4,4,4,4)
    print(set(tuple))

{1, 2, 3, 4}
```

List after removing tuples of length 2 : [(3, 4, 5), (6,), (7, 8, 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.

```
In [95]: tuple = (1, 2, 3, 4, 3)

distinct = len(tuple) == len(set(tuple))

if distinct:
    print("distinct elements.")

else:
    print("not distinct elements.")
```

not distinct elements.