



Python for Data Science - 2305CS303

Lab - 5 Part-2

Roll No.: 111

Max K: [5, 7, 9]

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1. WAP to create a list of squared numbers from 0 to 9 with and without using List Comprehension.

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

```
In [4]: t = (5, 1, 9, 4, 7, 3)
k = 3
    sorted_t = sorted(t)
    mink = sorted_t[:k]
    maxk = sorted_t[-k:]
    print("Min K:", mink)
    print("Max K:", maxk)
Min K: [1, 3, 4]
```

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

```
In [5]: data = [(10, 20), (15, 25), (30, 60), (12, 18)]
k = 5
result = []
for tup in data:
    if all(x % k == 0 for x in tup):
        result.append(tup)
print(result)

[(10, 20), (15, 25), (30, 60)]
```

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

5. WAP to remove tuples of length K.

```
In [8]: l1 = [(1, 2), (3, 4, 5), (6,), (7, 8)]
k = 2
l2 = []
for i in l1:
    if len(i) != k:
        l2.append(i)
print(l2)

[(3, 4, 5), (6,)]
```