



# Python for Data Science - 2305CS303

## Lab - 6

Roll No. : 135

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### 1. WAP to iterate over a set.

```
In [16]: s2={10,70,80,20,40}
         for i in s2:
             print(i)
```

```
80
20
70
40
10
```

### 2. WAP to convert set into list, string and tuple.

```
In [27]: s2 = {10,20,30,40,50}
         l1 = list(s2)
         l1
```

```
Out[27]: [50, 20, 40, 10, 30]
```

```
In [28]: s3 = {'Helloooo', 'good'}
         l2 = str(s3)
         l2
```

```
Out[28]: "{'Helloooo', 'good'}"
```

```
In [29]: s4 = {10,20,30,40,50}
         t3 = tuple(s4)
         t3
```

```
Out[29]: (50, 20, 40, 10, 30)
```

### 3. WAP to check if two lists have at-least one element

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```
In [1]: s1 = {1,2,3,4,5,6}
        s2 = {5,6,7,8,9,10}
        s3 = s1.intersection(s2)
        s3
```

```
Out[1]: {5, 6}
```

#### 4. WAP to remove duplicates from list.

```
In [3]: s1 = [1,2,3,4,4,5,5,6,7]
        s2=[]

        for i in s1:
            if i not in s2:
                s2.append(i)

        s2
```

```
Out[3]: [1, 2, 3, 4, 5, 6, 7]
```

#### 5. WAP to find unique words in the given string.

```
In [3]: i = "abc xyz pqr stu vwx yza"
        w = i.split()
        for x in w:
            print(x)
```

```
abc
xyz
pqr
stu
vwx
yza
```

#### 6. WAP to iterate over a dictionary.

```
In [8]: d1 = {
        "name": "Nikhil",
        "age": 21,
        "city": "jamnagar"
        }

        for i, j in d1.items():
            print(i, ":", j)
```

```
name : Nikhil
age : 21
city : jamnagar
```

#### 7. WAP to find the sum of all items (values) in a dictionary given by user. (Assume: values are numeric).

```
In [2]: d1 = {}
        n = int(input("Enter Number : "))
        for i in range(n):
```

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```

v = int(input("Enter value : "))
d1[k] = v
total = sum(d1.values())
print(d1)
total

```

```
{'1': 10, '2': 20}
```

```
Out[2]: 30
```

## 8. WAP to sort dictionary by key or value.

```

In [9]: d1 = {}
n = int(input("Enter Number : "))
for i in range(n):
    k = input("Enter key : ")
    v = int(input("Enter value : "))
    d1[k] = v
res = dict(sorted(d1.items()))
print(res)

```

```
{'1': 10, '2': 20, '3': 30}
```

## 9. WAP to handle missing keys in dictionaries.

- Example : Given, dict1 = {'a': 5, 'c': 8, 'e': 2}
- if you look for key = 'd', the message given should be 'Key Not Found', otherwise print the value of 'd' in dict1.

```

In [23]: # d1 = {}
d1 = {'a': 5, 'c': 8, 'e': 2}
# n = int(input("Enter Number : "))
# for i in range(n):
#     k = input("Enter key : ")
#     v = int(input("Enter value : "))
#     d1[k] = v
k = input("Enter key : ")
if k not in d1:
    print("Key Not Found")
else:
    d1[k]

```

```
In [ ]:
```