

## 10th March Superset subset disjoint

```
In [1]: s11={1,2,3,4,5,6,7,8,9}
        s12={3,4,5,6,7,8}
        s13={10,20,30,40}
```

```
In [3]: s12.issubset(s11)
```

```
Out[3]: True
```

```
In [4]: s11.issubset(s12)
```

```
Out[4]: False
```

```
In [5]: s11.issuperset(s12)
```

```
Out[5]: True
```

```
In [6]: s13.isdisjoint(s12)
```

```
Out[6]: True
```

```
In [7]: s13.isdisjoint(s11)
```

```
Out[7]: True
```

```
In [8]: s11
```

```
Out[8]: {1, 2, 3, 4, 5, 6, 7, 8, 9}
```

```
In [9]: s12
```

```
Out[9]: {3, 4, 5, 6, 7, 8}
```

```
In [10]: s13
```

```
Out[10]: {10, 20, 30, 40}
```

```
In [11]: for i in enumerate(s13):
          print(i)
```

```
(0, 40)
```

```
(1, 10)
```

```
(2, 20)
```

```
(3, 30)
```

```
In [13]: for i in s13:
          print(i)
```

40  
10  
20  
30

## Dictionary

```
In [14]: d = {}  
         type(d)
```

```
Out[14]: dict
```

```
In [15]: d1= {1:'one',2:'three',3:'three'}
```

```
In [16]: d1.keys
```

```
Out[16]: <function dict.keys>
```

```
In [17]: d1.values()
```

```
Out[17]: dict_values(['one', 'three', 'three'])
```

```
In [18]: d2 = d1.copy()  
         d2
```

```
Out[18]: {1: 'one', 2: 'three', 3: 'three'}
```

```
In [19]: d1.items
```

```
Out[19]: <function dict.items>
```

```
In [20]: d1[1]
```

```
Out[20]: 'one'
```

```
In [21]: d1[2]
```

```
Out[21]: 'three'
```

```
In [22]: d1[3]
```

```
Out[22]: 'three'
```

```
In [23]: r =range(1,10)
```

```
In [24]: r
```

```
Out[24]: range(1, 10)
```

```
In [25]: print(r)
```

```
range(1, 10)
```

In [ ]: