

```
In [3]: 1 ## task -14      sets {}
        2
        3 s=set()
        4 print(type(s))
```

```
<class 'set'>
```

```
In [10]: 1 s={24,32,34,'hai',34}
        2 s
```

```
Out[10]: {24, 32, 34, 'hai'}
```

```
In [6]: 1 s[0]
```

```
-----
TypeError                                Traceback (most recent call last)
<ipython-input-6-c9c96910e542> in <module>
----> 1 s[0]
```

```
TypeError: 'set' object is not subscriptable
```

```
In [9]: 1 s.add('rain')
        2 s
```

```
Out[9]: {24, 32, 34, 'hai', 'platform', 'rain', 'raju'}
```

```
In [13]: 1 s.clear()
        2 s
```

```
Out[13]: set()
```

```
In [15]: 1 s={24, 32, 34, 'hai', 'platform', 'rain', 'raju'}
        2 s.copy()
        3 s
```

```
Out[15]: {24, 32, 34, 'hai', 'platform', 'rain', 'raju'}
```

```
In [29]: 1 s={24, 32, 34, 'hai', 'platform', 'rain', 'raju'}
        2 s.pop()
        3 s
```

```
Out[29]: {24, 34, 'hai', 'platform', 'rain', 'raju'}
```

```
In [36]: 1 s={24, 32, 34, 'hai', 'platform', 'rain', 'raju'}
        2 s.remove('hai')
```

```
In [43]: 1 s.update('a','b')
         2 s
```

```
Out[43]: {24, 32, 34, 'a', 'b', 'platform', 'rain', 'raju'}
```

```
In [44]: 1 # set operations
         2 s1={1,2,3,4,5,6}
         3 s2={5,6,7,8,9,10,11,12}
         4 s1.union(s2)
```

```
Out[44]: {1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12}
```

```
In [45]: 1 s1.intersection(s2)
```

```
Out[45]: {5, 6}
```

```
In [46]: 1 s1.difference(s2)
```

```
Out[46]: {1, 2, 3, 4}
```

```
In [56]: 1 s1={1,2,3,4,5,6}
         2 s2={5,6,7,8,9,10,11,12}
         3 s1.symmetric_difference(s2)
```

```
Out[56]: {1, 2, 3, 4, 7, 8, 9, 10, 11, 12}
```

```
In [58]: 1 s1.issubset(s2)
```

```
Out[58]: False
```

```
In [61]: 1 s1={'a','b','c'}
         2 s2={'a'}
         3 s1.issuperset(s2)
```

```
Out[61]: True
```

```
In [62]: 1 s2.issuperset(s1)
```

```
Out[62]: False
```

```
In [63]: 1 s1.isdisjoint(s2)
```

```
Out[63]: False
```

```
In [ ]: 1 ## dictionary
```

```
In [21]: 1 hotel={'name':'croods','seats':80,'tables':16}  
2 hotel['name']
```

```
Out[21]: 'croods'
```

```
In [29]: 1 hotel.keys()
```

```
Out[29]: dict_keys(['name', 'seats', 'tables'])
```

```
In [31]: 1 hotel.values()
```

```
Out[31]: dict_values(['croods', 80, 16])
```

```
In [43]: 1 hotel={'name':'croods','seats':80,'tables':[16,18]}  
2 h=hotel.get('tables')  
3 h[1]
```

```
Out[43]: 18
```

```
In [44]: 1 hotel.items()
```

```
Out[44]: dict_items([('name', 'croods'), ('seats', 80), ('tables', [16, 18])])
```

```
In [59]: 1 hotel={'name':'croods','seats':80,'tables':16}  
2 hotel.update({'add':'dishes'})  
3 hotel
```

```
Out[59]: {'name': 'croods', 'seats': 80, 'tables': 16, 'add': 'dishes'}
```

```
In [72]: 1 hotel={'name':'croods','seats':80,'tables':16}  
2 hotel['name']='punjabi'  
3 hotel
```

```
Out[72]: {'name': 'punjabi', 'seats': 80, 'tables': 16}
```

```
In [77]: 1 hotel={'name':'croods','seats':80,'tables':16}  
2 hotel.pop('seats')
```

```
Out[77]: 80
```

```
In [72]: 1 hotel={'name':'croods','seats':80,'tables':16}
          2 hotel['name']='punjabi'
          3 hotel
```

```
Out[72]: {'name': 'punjabi', 'seats': 80, 'tables': 16}
```

```
In [77]: 1 hotel={'name':'croods','seats':80,'tables':16}
          2 hotel.pop('seats')
```

```
Out[77]: 80
```

```
In [82]: 1 hotel={'name':'croods','seats':80,'tables':16}
          2
          3 for i in hotel:
          4     print(i)
```

```
name
seats
tables
```

```
In [80]: 1 hotel={'name':'croods','seats':80,'tables':16}
          2 for i in hotel.values():
          3     print(i)
```

```
croods
80
16
```

```
In [84]: 1 for i in hotel.items():
          2     print(i)
```

```
('name', 'croods')
('seats', 80)
('tables', 16)
```