5/22/25, 8:24 AM Sets

```
22nd May 2025 - Sets
 In [9]: s= {}
Out[9]: {}
In [11]: type(s)
Out[11]: dict
In [15]: s = set()
Out[15]: set()
In [17]: type(s)
Out[17]: set
In [19]: s1 = {90, 80, 3, 13, 47, 100, 1}
Out[19]: {1, 3, 13, 47, 80, 90, 100}
In [21]: type(s1)
Out[21]: set
In [26]: s2 = {4, 'nit', 2.3, True, 1+2j}
Out[26]: {(1+2j), 2.3, 4, True, 'nit'}
In [32]: s1
Out[32]: {1, 3, 13, 47, 80, 90, 100}
In [34]: s1.add(200)
        s1
Out[34]: {1, 3, 13, 47, 80, 90, 100, 200}
In [36]: s1.add(100)
Out[36]: {1, 3, 13, 47, 80, 90, 100, 200}
In [41]: s3 = s1.copy();
        s3
Out[41]: {1, 3, 13, 47, 80, 90, 100, 200}
In [52]: s1 == s3
Out[52]: True
In [54]: len(s3)
Out[54]: 8
In [56]: s3.clear()
In [58]: s3
Out[58]: set()
In [60]: len(s3)
Out[60]: 0
In [70]: s1.pop()
Out[70]: 80
In [72]: s1
Out[72]: {1, 3, 13, 47, 90, 100, 200}
In [74]: s1[0]
                                               Traceback (most recent call last)
       Cell In[74], line 1
----> 1 s1[0]
       TypeError: 'set' object is not subscriptable
In [76]: s1[:]
```

5/22/25, 8:24 AM Sets

```
TypeError Traceback (most recent call :
                                               Traceback (most recent call last)
        Cell In[76], line 1
        ----> 1 s1[:]
        TypeError: 'set' object is not subscriptable
 In [88]: s1.pop()
Out[88]: 1
 In [90]: s1
Out[90]: {3, 13, 47, 90, 100, 200}
 In [99]: s1.pop(1)
        TypeError
Cell In[99], line 1
----> 1 s1.pop(1)
                                               Traceback (most recent call last)
        TypeError: set.pop() takes no arguments (1 given)
In [109... sl.remove(1000)
                                               Traceback (most recent call last)
        KeyError
        Cell In[109], line 1
        ----> 1 s1.remove(1000)
        KeyError: 1000
In [111... s1.discard(1000)
In [113... s1.remove(47)
In [115... s1
Out[115... {3, 13, 90, 100, 200}
In [123... for i in s1:
         print(i)
        3
        100
        200
        90
        13
(0, 3)
(1, 100)
(2, 200)
        (3, 90)
(4, 13)
In [133... s1
Out[133... {3, 13, 90, 100, 200}
In [138... s1.update([1,2])
Out[140... {1, 2, 3, 13, 90, 100, 200}
  In [ ]:
```