system autom dict not set

```
empty set == set()
         empty dict = {}
         empty list =[]
         empty tuple =()
 In [2]: s1 = \{1,4,23,6,8\}
         s1
 Out[2]: {1, 4, 6, 8, 23}
 In [4]: type(s1)
 Out[4]: set
 In [6]: print(type(s1))
       <class 'set'>
 In [8]: s2 = {'q','e','a','t','b'}
         s2
 Out[8]: {'a', 'b', 'e', 'q', 't'}
In [10]: type(s2)
Out[10]: set
In [12]: s1
Out[12]: {1, 4, 6, 8, 23}
In [14]: s1.add(50)
In [16]: s1
Out[16]: {1, 4, 6, 8, 23, 50}
In [18]: s1.add(12,34)
       TypeError
                                              Traceback (most recent call last)
       Cell In[18], line 1
       ---> 1 s1.add(12,34)
       TypeError: set.add() takes exactly one argument (2 given)
```

```
In [20]: s1
Out[20]: {1, 4, 6, 8, 23, 50}
In [22]: s1.add(50)
         s1
Out[22]: {1, 4, 6, 8, 23, 50}
         IN SET DUPLICATES ARE NOT ALLOWED.
In [25]: s3 = s1.copy()
         s3
Out[25]: {1, 4, 6, 8, 23, 50}
In [27]: s1[0]
        TypeError
                                                  Traceback (most recent call last)
        Cell In[27], line 1
        ----> 1 s1[0]
       TypeError: 'set' object is not subscriptable
In [31]: s1[:]
        TypeError
                                                  Traceback (most recent call last)
        Cell In[31], line 1
        ----> 1 s1[:]
       TypeError: 'set' object is not subscriptable
In [33]: s1
Out[33]: {1, 4, 6, 8, 23, 50}
In [35]: s4= s1.copy()
In [37]: s4
Out[37]: {1, 4, 6, 8, 23, 50}
In [39]: len(s4)
Out[39]: 6
In [41]: id(s4)
Out[41]: 2466565218912
In [43]: id(s1)
```

```
Out[43]: 2466546382688
In [45]: s4.clear()
In [47]: len(s4)
Out[47]: 0
In [49]: id(s4)
Out[49]: 2466565218912
In [51]: s3
Out[51]: {1, 4, 6, 8, 23, 50}
In [53]: s2
Out[53]: {'a', 'b', 'e', 'q', 't'}
In [55]: del s4
In [57]: id(s4)
        NameError
                                                  Traceback (most recent call last)
        Cell In[57], line 1
        ----> 1 id(s4)
        NameError: name 's4' is not defined
In [59]: s1.count(1)
        AttributeError
                                                  Traceback (most recent call last)
        Cell In[59], line 1
        ---> 1 s1.count(1)
       AttributeError: 'set' object has no attribute 'count'
In [61]: s4 = s1
In [63]: s4
Out[63]: {1, 4, 6, 8, 23, 50}
In [65]: type(s4)
Out[65]: set
In [67]: id(s4)
```

```
Out[67]: 2466546382688
In [69]: s5 = {1+3J,5.6,True,'a'}
In [71]: s5
Out[71]: {(1+3j), 5.6, True, 'a'}
In [73]: type(s5)
Out[73]: set
In [75]: s5.remove(1+3j)
In [77]: s5
Out[77]: {5.6, True, 'a'}
In [81]: s5.remove(True)
In [84]: s5
Out[84]: {5.6, 'a'}
In [86]: s7= [1,4,3,5,6,3,9]
In [88]: s7
Out[88]: [1, 4, 3, 5, 6, 3, 9]
In [90]: type(s7)
Out[90]: list
In [92]: s7.pop()
Out[92]: 9
In [94]: s7
Out[94]: [1, 4, 3, 5, 6, 3]
In [96]: s7.pop(0)
Out[96]: 1
In [98]: s7
Out[98]: [4, 3, 5, 6, 3]
```

In [ ]: