```
In [1]: #Tuple
          t=()
          t
          ()
 Out[1]:
 In [2]: t1 = tuple()
          t1
          ()
 Out[2]:
          type(t)
 In [3]:
         tuple
Out[3]:
          t1 = (10, 20, 30, 40)
 In [4]:
         t1
 In [5]:
          (10, 20, 30, 40)
 Out[5]:
 In [6]: t2 = (10,20.5,1+2J,'nit',True)
          (10, 20.5, (1+2j), 'nit', True)
 Out[6]:
 In [7]: t2.append(10)
                                                     Traceback (most recent call last)
          AttributeError
          Cell In[7], line 1
          ----> 1 t2.append(10)
         AttributeError: 'tuple' object has no attribute 'append'
         t1
 In [8]:
          (10, 20, 30, 40)
 Out[8]:
 In [9]:
          t1[0]
Out[9]:
In [10]:
         t1[0] = 100
                                                     Traceback (most recent call last)
          TypeError
          Cell In[10], line 1
            --> 1 t1[0]= 100
         TypeError: 'tuple' object does not support item assignment
In [11]: t2 = (10,20,10,20,40)
```

```
t2
In [12]:
          (10, 20, 10, 20, 40)
Out[12]:
          t1[:]
In [13]:
          (10, 20, 30, 40)
Out[13]:
          t2[1:]
In [14]:
          (20, 10, 20, 40)
Out[14]:
          t2.count(10)
In [15]:
Out[15]:
          t2.count(40)
In [16]:
Out[16]:
In [17]:
          t2.index(20)
Out[17]:
In [18]: for i in t2:
              print(i)
          10
          20
          10
          20
          40
In [19]: l = [1,200,2]
          l
          [1, 200, 2]
Out[19]:
In [21]:
          for i in enumerate(l): # Enumerate return the values with Indexes
              print(i)
          (0, 1)
          (1, 200)
          (2, 2)
         for i in enumerate(t1):
In [22]:
              print(i)
          (0, 10)
          (1, 20)
          (2, 30)
          (3, 40)
In [23]: t3 = t1.copy()
```

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AttributeError
                                                     Traceback (most recent call last)
          Cell In[23], line 1
          ---> 1 t3 = t1.copy()
         AttributeError: 'tuple' object has no attribute 'copy'
In [24]: #set
          S={}
          S
          {}
Out[24]:
In [25]:
          type(s)
          dict
Out[25]:
In [26]: s1 = set()
In [27]:
          type(s1)
          set
Out[27]:
In [28]: s1 = \{5,3,100,59,29,20\}
         {3, 5, 20, 29, 59, 100}
Out[28]:
In [29]: s2 = \{'z', 'm', 'b', 'a', 'x', 'v', 'l'\}
         {'a', 'b', 'l', 'm', 'v', 'x', 'z'}
Out[29]:
In [31]: s3 = \{2, 'z', 4.5, 1+2j, True\}
Out[31]: {(1+2j), 2, 4.5, True, 'z'}
In [32]: print(s1)
          print(s2)
          print(s3)
          {3, 100, 5, 20, 59, 29}
          {'l', 'x', 'v', 'm', 'a', 'z', 'b'}
          {True, 2, 4.5, 'z', (1+2j)}
In [33]: print(type(s1))
          print(type(s2))
          print(type(s3))
          <class 'set'>
          <class 'set'>
          <class 'set'>
In [34]: s1.add(200)
```

```
s1
In [35]:
         {3, 5, 20, 29, 59, 100, 200}
Out[35]:
In [36]: s1.add(200)
         s1
In [37]:
         {3, 5, 20, 29, 59, 100, 200}
Out[37]:
In [38]: s4 = s1.copy()
In [39]: s4
         {3, 5, 20, 29, 59, 100, 200}
Out[39]:
In [40]:
         s1[0]
                                                     Traceback (most recent call last)
         TypeError
         Cell In[40], line 1
          ----> 1 s1[0]
         TypeError: 'set' object is not subscriptable
In [41]: s4.clear()
In [42]:
         s4
         set()
Out[42]:
In [45]: del s4
In [43]:
         s1.pop()
Out[43]:
In [46]: s4 = \{1, 2, 4\}
In [47]:
         id(s4)
         4581142848
Out[47]:
In [48]: s3.remove(1+2j)
In [49]:
         s3
         {2, 4.5, True, 'z'}
Out[49]:
In []: s3.pop()
```