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## ----- tuple ----- is immutable

```
In [14]: t=()
In [15]: type(t)
Out[15]: tuple
In [16]: t= (10,20,30)
         t
Out[16]: (10, 20, 30)
In [17]: t.count(20)
Out[17]: 1
In [18]: | t1=(20,23.4, 'ten',1+2j)
         t1
Out[18]: (20, 23.4, 'ten', (1+2j))
In [19]: t1.index(20)
Out[19]: 0
In [20]: print(t)
         print(t1)
        (10, 20, 30)
        (20, 23.4, 'ten', (1+2j))
In [21]: print(len(t))
         print(len(t1))
In [22]: #----- tuple is immutable
         # cannot change or edit
In [23]: bank_account=('adhar',2334,55)
         bank_account
Out[23]: ('adhar', 2334, 55)
In [24]: bank_account[0]='ten'
```

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```
Traceback (most recent call las
        TypeError
        t)
        Cell In[24], line 1
        ----> 1 bank_account[0]='ten'
       TypeError: 'tuple' object does not support item assignment
In [30]: t=(10,20,30,40)
         t2=t*3 # 3 list repeats 3 times
In [31]: t2
Out[31]: (10, 20, 30, 40, 10, 20, 30, 40, 10, 20, 30, 40)
In [36]:
          0 in t2
Out[36]: False
In [37]:
         20 in t2
Out[37]: True
In [39]: all(t2)
Out[39]: True
In [40]: any(t2)
Out[40]: True
In [41]: t3=(20,40,0)
In [43]: all(t3)
Out[43]: False
In [44]: any(t3)
Out[44]: True
In [49]: T=tuple('aruna')
         Τ
Out[49]: ('a', 'r', 'u', 'n', 'a')
In [51]: t=(1,2,3,4)
```

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Out[51]: (1, 2, 3, 4)

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