**Tuples** Tuples are ordered collection of elements enclosed within () Tuples are immutable. We can't change the value of tuples. In [1]: t=(7,3.14,"Pritam",True,3+4j) print(t) (7, 3.14, 'Pritam', True, (3+4j)) t=(100,7.10,[10,20,30],"False",(40,50),{5,10}) In [4]: Out[4]: (100, 7.1, [10, 20, 30], 'False', (40, 50), {5, 10}) In [5]: type(t) Out[5]: tuple **Immutability** t=(10,20,30,40) Out[7]: (10, 20, 30, 40) In [9]: t[0]**=**5 Traceback (most recent call last) <ipython-input-9-1c25f0002d07> in <module> ----> 1 t[0]=5 TypeError: 'tuple' object does not support item assignment t[-1]="Fifty" Traceback (most recent call last) <ipython-input-10-ee3422381cd5> in <module> ----> 1 t[-1]="Fifty" TypeError: 'tuple' object does not support item assignment In [11]: t=(10,20,30,40,50) print(t) (10, 20, 30, 40, 50) t[0] Out[14]: **50** In [15]: t[0:] Out[15]: (10, 20, 30, 40, 50) In [16]: t[:3] Out[16]: **(10, 20, 30)** In [17]: t[1:4] Out[17]: (20, 30, 40) In [18]: t[3:5] Out[18]: (40, 50) In [19]: t[::1] Out[19]: (10, 20, 30, 40, 50) In [20]: t[::-1] Out[20]: (50, 40, 30, 20, 10) In [21]: min(t) Out[21]: **10** Out[22]: **50** In [23]: len(t) Out[23]: **5** In [24]: t=(10,20,30,20,50,10,20,60) In [25]: t Out[25]: (10, 20, 30, 20, 50, 10, 20, 60) In [26]: t.count(10) Out[26]: 2 In [27]: t.count(60) In [28]: t.index(10) Out[28]: 0 In [29]: t.index(50) Out[29]: 4 In [30]: t1=(10,20,30) t2=(40,50,60) In [31]: t1+t2 Out[31]: (10, 20, 30, 40, 50, 60) In [32]: t3=t1+t2 In [33]: t3 Out[33]: (10, 20, 30, 40, 50, 60) In [34]: t3\*3 Out[34]: (10, 20, 30, 40, 50, 60, 10, 20, 30, 40, 50, 60, 10, 20, 30, 40, 50, 60) In [35]: t=(20,40,60) In [36]: t[1]==40 Out[36]: True In [37]: t[-1]==60 Out[37]: True

In [38]: t[0]+t[-1]

In [39]: t[0]\*t[2]

Out[38]: **80** 

Out[39]: **1200**