6th March Tuple

```python
In [62]: t = () # Tuple is created
         t
```

Out[62]: ()

```python
In [63]: print(type(t))
```

```
<class 'tuple'>
```

```python
In [64]: t1 = (10,40,20,50,100,10,40) # duplication is allowed in tuple
         t1
```

Out[64]: (10, 40, 20, 50, 100, 10, 40)

```python
In [66]: len(t1)
```

Out[66]: 7

```python
In [67]: t1.count()
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[67], line 1
----> 1 t1.count()

TypeError: tuple.count() takes exactly one argument (0 given)
```

```python
In [68]: t1.count(10)
```

Out[68]: 2

```python
In [69]: t1.count(100)
```

Out[69]: 1

```python
In [70]: t1.index(10)
```

Out[70]: 0

```python
In [71]: t1.index(100)
```

Out[71]: 4

```python
In [72]: list = [10,20,30,'nit','ammerpet']
         list
```

Out[72]: [10, 20, 30, 'nit', 'ammerpet']

```
In [73]: list[2]=5 # List is mutable
         list
```

Out[73]: [10, 20, 5, 'nit', 'ammerpet']

```
In [74]: t2 = (10,2.3,'nit',(1+2j),(30,50,70),[1,2,3,4])
         t2
```

Out[74]: (10, 2.3, 'nit', (1+2j), (30, 50, 70), [1, 2, 3, 4])

```
In [75]: print(t)
         print(t1)
         print(t2)
```

```
()
(10, 40, 20, 50, 100, 10, 40)
(10, 2.3, 'nit', (1+2j), (30, 50, 70), [1, 2, 3, 4])
```

```
In [76]: t1
```

Out[76]: (10, 40, 20, 50, 100, 10, 40)

```
In [78]: t1[2]=6 # Tuple is immutable 0r inhashable(unchangeable)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[78], line 1
----> 1 t1[2]=6

TypeError: 'tuple' object does not support item assignment
```

```
In [79]: sbi = (2453672,'C*****9',30000,346000)
         sbi
```

Out[79]: (2453672, 'C*****9', 30000, 346000)

```
In [80]: sbi[1]=20990
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[80], line 1
----> 1 sbi[1]=20990

TypeError: 'tuple' object does not support item assignment
```

```
In [81]: t1
```

Out[81]: (10, 40, 20, 50, 100, 10, 40)

```
In [86]: t4=t1*2
         t4
```

Out[86]: (10, 40, 20, 50, 100, 10, 40, 10, 40, 20, 50, 100, 10, 40)

```
In [87]:  t4
```

Out[87]: (10, 40, 20, 50, 100, 10, 40, 10, 40, 20, 50, 100, 10, 40)

```
In [88]:  t4[:]
```

Out[88]: (10, 40, 20, 50, 100, 10, 40, 10, 40, 20, 50, 100, 10, 40)

```
In [89]:  t4[1:3]
```

Out[89]: (40, 20)

```
In [90]:  t4[0:10:3]
```

Out[90]: (10, 50, 40, 20)

Tuple is completed

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```