Tuple creation

```
tup1 = () #Empty tuple
tup2 =(10,20,30)
                    #tuple of integers numbers
tup3 =(10.77,30.66,60.89)
                                #tuple of float numbers
tup4 =('one','two','three')
                                 #tuple of strings
tup5 =('Asif',25,(50,100),(150,90)) #Nested tuples
tup6 =(100, 'Asif', 17.765)
                              #Tuple of mixed data types
tup7 =('ASif',25,[50,100],[150,90],{'john','Dravid'},(99,22,33))
Double-click (or enter) to edit
len(tup7)
                  #lenghth of list
<del>______</del> 6
len(tup3)
→ 3
Tuple indexing
tup2[0]
→ 10
tup4[0]
tup4[0][0]
tup4[-1]
+thnoo'
Start coding or generate with AI.
Tuple Slicing
mytuple =('one','two','three','four','five','six','seven','eight','nine','ten')
mytuple[0:3]
('one', 'two', 'three')
mytuple[2:5]
('three', 'four', 'five')
mytuple[:3]
```

```
('one', 'two', 'three')
mytuple[:2]
→ ('one', 'two')
mytuple[-3:]
→ ('eight', 'nine', 'ten')
mytuple[-2:]
→ ('nine', 'ten')
mytuple[-1:]
→ ('ten',)
mytuple[:]
('one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight', 'nine', 'ten')
Remove & change items
mytuple
('one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight', 'nine', 'ten')
del mytuple[0]
    ______
                                          Traceback (most recent call last)
    /tmp/ipython-input-29-1004790074.py in <cell line: 0>()
    ----> 1 del mytuple[0]
    TypeError: 'tuple' object doesn't support item deletion
mytuple[0] =1
    TypeError
                                          Traceback (most recent call last)
    /tmp/ipython-input-30-3796157582.py in <cell line: 0>()
    ----> 1 mytuple[0] =1
    TypeError: 'tuple' object does not support item assignment
del mytuple
Loop through a tuple
mytuple =('one','two','three','four','five','six','seven','eight','nine','ten')
for i in mytuple:
   print(i)
→ one
    two
    three
    four
    five
    six
    seven
    eight
    nine
    ten
```

```
for i in enumerate(mytuple):
  print(i)
(0, 'one')

(1, 'two')

(2, 'three')

(3, 'four')

(4, 'five')

(5, 'six')

(6, 'seven')
     (7, 'eight')
(8, 'nine')
(9, 'ten')
Tuple Membership
mytuple
('one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight', 'nine', 'ten')
'one' in mytuple
→ True
'ten' in mytuple
→ True
if 'three' in mytuple:
  print('Three is present in the tuple')
  print('Three is not present in the tuple')

→ Three is present in the tuple

if 'eleven' in mytuple:
  print('Eleven is present in the tuple')
  print('Eleven is not present in the tuple')
\Longrightarrow Eleven is not present in the tuple
Index Position
mytuple
('one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight', 'nine', 'ten')
mytuple.index('one')
→ 0
mytuple.index('ten')
→ 9
mytuple.index('nine')
<del>_</del> 8
Sorting
mytuple2 =(40,43,67,90,56,98,100,45)
sorted(mytuple2)
1 [40, 43, 45, 56, 67, 90, 98, 100]
sorted(mytuple2,reverse=True)
```

→ [100, 98, 90, 67, 56, 45, 43, 40]