Full stack web development using python

tuple

Saurabh Shukla (MySirG)

Agenda

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tuple

tuple is a class

tuple is iterable

tuple is immutable

tuple is hashable

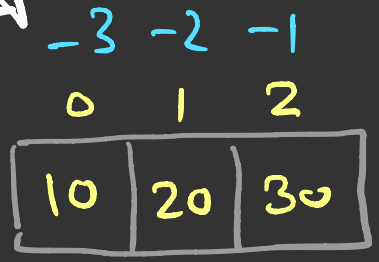
tuple is a sequence

How to create tuple object?

```
t1 = (1, 2, 5, 7)
t2 = ()
t3 = (10)  --> not a tuple
t3 = (10,)
t4 = 10,20,30
```

indexing →

```
t1 = (10, 20, 30)
```



Accessing tuple elements

```
t1 = ( 10, 5, 20, 15)
```

①

```
t1[0]
printf( t1[1]) # 5
```

②

```
i=0
while ( i<len(t1))
      print ( t1[i])
      i+=1
```

③

```
for a in t1 :
    print(a)
```

built-in methods

len()

min()

max()

sum()

sorted()

Concatenation and Repetition Operator

```
t1 = (10, 20)
t2 = (11, 22, 33)

t1 + t2      (10, 20, 11, 22, 33)

t1 * 3       (10, 20, 10, 20, 10, 20)
```

Comparison Operator

t1 = (10, 20)

t2 = (11, 33, 55)

t1 > t2 false

t1 == t2 false

t2 > t1 True

tuple object methods

index()

count()

Slicing Operator

t1[beg:end:step]

t1[::-1] reverse

user input

```
t1=tuple([int(e) for e in input().split(',')])
```

```
t1 = tuple()
t2 = tuple([1,2,3])
t3 = tuple(range(5))
```