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Shri Sabhariesh K
Creating Tuples
emp=()
print(type(emp))
     <class 'tuple'>
print(emp)
     ()
city="Pune",
type(city)
     tuple
city=("Pune", "Bangalore", "Chennai")
city
('Pune', 'Bangalore', 'Chennai')
list1=[1,2,3,4]
tuple1=(1,2,3,4)
list1.append(5)
print(list1)
     [1, 2, 3, 4, 5]
List is mutable. Tuple is immutable. Once tuple is set, it cannot be changed. List uses square brackets. tuple uses parantheses.
print(city)
     ('Pune', 'Bangalore', 'Chennai')
city[1]
     'Bangalore'
city[-1]
     'Chennai'
concatenation
print(city)
     ('Pune', 'Bangalore', 'Chennai')
num=1,2,3,4
print(city+num)
     ('Pune', 'Bangalore', 'Chennai', 1, 2, 3, 4)
Nesting
nest=(city,num)
print(nest)
     (('Pune', 'Bangalore', 'Chennai'), (1, 2, 3, 4))
Repetition
```

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3/18/24, 3:26 PM
                                                                                                                                                                                                                          python practice 4.ipynb - Colaboratory
            rep=("Python",)*5
            rep
                             ('Python', 'Python', 'Python', 'Python')
            rep=("Python",)
           print(rep*10)
                             ('Python', 'Python', 'Pyth
            Slicing
            num
                           (1, 2, 3, 4)
           num[1:]
                            (2, 3, 4)
            \mathsf{num}[::\text{-1}]
                            (4, 3, 2, 1)
            Unpacking
            tuple("ShriSabhariesh")
                              ('S', 'h', 'r', 'i', 'S', 'a', 'b', 'h', 'a', 'r', 'i', 'e', 's', 'h')
           a,b,c,d=num
           print(a,b,c,d)
                            1 2 3 4
           a, *b, c=num
           print(a,b,c)
                            1 [2, 3] 4
             Deleting a Tuple
            tuple1=(1,2,3,4)
           print(tuple1)
                            (1, 2, 3, 4)
            del tuple1
            print(tuple1)
                                                                                                                                                                       Traceback (most recent call last)
                            <ipython-input-28-8c91080a054a> in <cell line: 1>()
                              ----> 1 del tuple1
                                               2 print(tuple1)
                            NameError: name 'tuple1' is not defined
               Next steps: Explain error
             Built in Function
            num1=(3,5,2,2,2,2,6,5,8)
           num1.count(2)
                            4
            sum(num1)
                            35
```

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3/18/24, 3:26 PM
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len(num1)

max(num1)

8

min(num1)

2

Converting list to tuple

Nesting tuples in a list

lst=[(1,2,3),(4,5,6)]

```
print(lst)
     [(1, 2, 3), (4, 5, 6)]

lst.append(("tuple","inside","list"))
print(lst)
     [(1, 2, 3), (4, 5, 6), ('tuple', 'inside', 'list'), ('tuple', 'inside', 'list')]
```

Nesting lists within tuples

```
tpl=(['a','b','c'],['d','e','f'])
print(tpl)
    (['a', 'b', 'c'], ['d', 'e', 'f'])

tpl[0].append('z')
print(tpl)
    (['a', 'b', 'c', 'z'], ['d', 'e', 'f'])
```

Start coding or generate with AI.