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Tuple concept

1. Python program to Find the size of a Tuple

3. Create a list of tuples from given list having number and its cube in each tuple

```
l1=[1,2,3,4,5]
for i in l1:
    ti=(l1[i-1],l1[i-1]*l1[i-1]*l1[i-1])
    print("t%d = "%i,ti)

    t1 = (1, 1)
        t2 = (2, 8)
        t3 = (3, 27)
        t4 = (4, 64)
        t5 = (5, 125)
```

Minimum element: 2

4. Python – Adding Tuple to List and vice – versa

l=list(map(int,input("Enter a list: ").split(',')))

5. Python - Sum of tuple elements

```
l=tuple(map(int,input("Enter a list: ").split(',')))
sum=0
for i in 1:
    sum+=i
print("Sum:",sum)

Finter a list: 2,3,4,5,86
    Sum: 100
```

6. Python - Modulo of tuple elements

```
t=tuple(map(int,input("Enter a tuple: ").split(',')))
r=int(input("Enter the element you want to divide with: "))
modulo=tuple(i % r for i in t)
print("Module of tuple element:",modulo)

    Enter a tuple: 34,45,632,60,84

     Enter the element you want to divide with: 5
     Module of tuple element: (4, 0, 2, 0, 4)
Double-click (or enter) to edit
   7. Python - Row-wise element Addition in Tuple Matrix
t=((1,2,3),(4,5,6),(7,8,9))
for row in t:
  sum=0
  for i in row:
    sum+=i
 print(sum)
\overline{2}
    6
     15
     24
   8. Python - Update each element in tuple list
t=[(1,2),(4,3),(2,5)]
for i in range(len(t)):
  a,b=t[i]
 t[i]=(a+1,b+1)
print(t)
→ [(2, 3), (5, 4), (3, 6)]
   9. Python - Multiply Adjacent elements
 t=(1,2,3,4,5)
result=[]
for i in range(len(t)-1):
 result.append(t[i]*t[i+1])
print(result)
→ [2, 6, 12, 20]
  10. Python - All pair combinations of 2 tuples
t1=(1,2,3)
t2=('a','b','c')
result=[]
for i in t1:
  for j in t2:
   result.append((i,j))
print(result)
∑ [(1, 'a'), (1, 'b'), (1, 'c'), (2, 'a'), (2, 'b'), (2, 'c'), (3, 'a'), (3, 'b'), (3, 'c')]
  11. Python - Remove Tuples from the List having every element as None
t1=[(),(1,2,3),(),(4,5,6,7)]
for i in t1:
 if len(i)!=0:
    print(str(i))
\rightarrow (1, 2, 3)
     (4, 5, 6, 7)
  12. Python - Remove Tuples of Length K
```

https://colab.research.google.com/drive/163e3YuBMFZh2FCPP2i7Yfd7pCiTlyjuc?authuser=3#scrollTo=ijFi0Of\_fuDg&printMode=true

```
t1=[(1,2,3),(2,35,43,3,5),(435,3,6,3,46),(8,4,6,3)]
n=int(input("Enter length of string you want to remove: "))
for i in t1:
  if len(i)!=n:
    print(str(i))
Enter length of string you want to remove: 5
     (1, 2, 3)
     (8, 4, 6, 3)
  13. Elements frequency in tuple
t=(1,2,3,1,5,2,6)
n=int(input("Enter the element you want to count: "))
t1=t.count(n)
print(t1)
\longrightarrow Enter the element you want to count: 1
  14. Join Tuples if similar initial element
t=(1,2,3,4,5,6)
t1=(1,4,2,5,6)
if(t[0]==t1[0]):
 t2=t+t1
print(t2)
→ (1, 2, 3, 4, 5, 6, 1, 4, 2, 5, 6)
  15. WAP to sort a list of tuples by second item
t1=[(1,2),(4,6),(3,5)]
t1.sort(key=lambda a: a[1])
print("The sorted tuple: ",t1)
\rightarrow The sorted tuple: [(1, 2), (3, 5), (4, 6)]
Start coding or generate with AI.
```