Tuples

- Used to store multiple items in a single variable.

- Ordered

- un changeable, Allow pupicate values.

- are written with round brackets. Indexing & Blicing are allowed in List & Tuple.

tuple = ("a", "b", "c")

Create tuple with one item

- To create a tuple,
you have to add a comma
after the item.

atuple = ("apple",)

print (type (atuple))

#(class 'tuple')

ex: a tuple = ("apple")

Print (type (atuple))

< < 1955 ' Sty'>.

2) ways to create an empty tuple.

Using round bracket.

a = ()print (type (a)).

OIP: < class' tuple'> using temple()

a=tuple ()

print (typeca)).

OlP. :.

¿ Class 'tuple'>.

Mixed Tuple .. without Minustry on store any thing in - we can

tuple like int, float, string, boolean, tuples, list, dictionary etc...

ex: a = C agri, True 8, 10, 8.10, (8, 10).

a) Index() \rightarrow Returns the index of $_{1}$ St occ of an elem in the tuple.

ex. r=('a', 'b', 'd', 'a', e')

 γ . index ('a') \longrightarrow 0.

 $\gamma \cdot index('b') \longrightarrow 1.$

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ii) count()
        Retwin the no. of
   occ. of value Present in the
   tuple, 6/56 0.
   ex: y= ('a', 'b', 'd', 'a', 'e')
    y. count('a') -> 2
  r. count ('e') -> 1
    Y. rount ('c') -> 0.
   Unpacking a Tuple.
   - when we create a tuple,
   we normally assign values to it.
   That's called "packing"
 Byt in Python, we are
   also allowed to extract
   the values back into variables.
   This is called "un packing"
C = ( abc', "agi", "K").
C_{1}(C_{1},C_{2},C_{3}) = C
         Print (ci) -> .abc
```

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Using Asterisk (*)
               If no of var is 1866 than
             no. of values, then we can add
       * to the var name & values will
          be assigned to the var as a
                                                                            the Artistance of the Artistan
        196 t.
               cl = ("abc", "agi", "k", "c#".
   ex :.
                                                                                " HO")
             (a,b,*c) = c1.
                  \begin{array}{ccc} pnin+ & (a) & \longrightarrow & abc \\ & & & & \\ & & & \\ & & & \\ & & & \\ \end{array}
                                                    (c) -> [K, 'c#, 'HO].
  If the * 15 added to another
    var. name than the 195t, then it
will as gign value to war. until the
   no. of matches in left.
ex: c1= (" abc", "agi", "k", "c#", Ho")
      (a, *b, c) = c1.
         print (a) -> abc

(b) -> ['agi', 'k', 'c#']
                         (c) -> HO.
```