Tuple methods

```
Tuples:-
 . Tuple ia similar to list (H is ordered collection of
  objects) but main difference is immutable.
=) cocating a tuple:
    top1 = (2, "Hello", "Python")
    point ( tup=)
=) Tuple chagacter is this!
    · Ordered
   · immutable
    · Allow duplicates.
=) Access Tuple Items:
   · Index value stages with zero (0)
   Ext
     Lang = ("Python", 'C', "c++")
      Point ( lang [O]) # Python
      Point ( lang[2]) # C++
=) Tuples cannot be modified:
    It will get an eggog.
     Lang [2] = "Java"; # essos
=) Iteseate through a tuple :-
     fruits = ("apple", "banana"), "oxange")
     for fugit in fruits:
         Prid (fruit).
```

Python Tuple Methods:

1. count ():- it setups the number of times the specified element appears in the type

Et vowels = ('a', le', 'i', lo', li', 'v') count = Youeld . count (1)) Point (count) #2

2. Index! - returns the index of specified elevent in the tuple.

Ex:index = vowels. index(e) Print (Index) #1

Nested Tuples:

Nested tuples are tuples that contain other tuptes as their element. They can be thought as a multidimension tuples.

Characteristics of wasted Topics:

- · Immutability
- · Accessing Elements
- · Fixed structure.

 E_{x}^{1} nested = ((1,2,3)) (4,5,6), (7,8,9)

> # Accessing Nested Tuples. Point (nested [0](0]) #1

```
Find a num in madrix !-

madrix = ((1,2,3), (4,5,6), (2,8,9))

num = 7

exits = False

for i in modrix:

for i in modrix:

for i in modrix:

exists = True

if (i = num):

exists = True

if (exists):

print ("Table")

else:
```

Dictionary Methods

```
Dictionagi

Stoppe the clonent in key value paigs.

Ithey age enclosed in E3 custy boxces/Haug boxces.

Key showl be always biting

We can store multiple data types in dict.

Example:

Thisdict = {

"boxand": " pood",

"model": "modery",

"year ": 1964

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Point ("prisdict)
```

```
Dictionary Hem:
  adictionary ithems are ordered, drangable, and do not
  Ex!-
                   "brand" ! "Foxy",
                   "Model" " "Mustang",
                   4 year 11 : 1964
          Point ( this sict ["board o])
   5/P :- Foxd.
  =) changable
        thisdict [ "year "] = 1965
  => Duplicates not allowed
      It remains ocutomatically with senoves postelement.
  =) Dictionary length:
       Point (len (thisdict)) #3
   =) Accessing I tema?
         thisdict = {
             "brand"; "Ford";
                  "Model & Mustang",
                   "year" : "1964"
            X = trisdict ["Model"]
            x = thistict-ogel (umodel v)
           # Mustang
```

=) Get keys;

it between's list of keys in the dictionary

Ex: x = this dictologys()

dict-keys (L'brand 1, (Model), (year)])

=) Get values;

H xot.

H setupns a List of all the values in the dictionary

X = thistict . Values() }

dict_values (['Food1, Mustany, 1964])

Ex:

Lit seawas each Hem in a dictionary, as tuples in alist.

Ex:

disc x = thisdict oitems()

dict_Items ([[(Bsand', (Ford), (Imasel', Imastang'), (Imasel', Imastang')])

De uptake () method will uptake the dictionary with the items from the given aggument.

Exit thistict = {

"brant": 4 posd",

"Model": "Mustary",
"Year": "1964

this dict. update ({ "year": 20203)

Adding Bens:-

Ext thisdict ["cobs"] = "Red"

Removing Items :-

They ago so vegal methods to somove items from

Ex-18- thisdict . pop ("Model")

Ex-2:- this dict . pop I tem ("Madel")

Ex-3: del thisdict ["Model"]

Ex-4:- del thistict # delete the dictionary completely.

cleas(): - method emptres the dictionary

Ex! thisdict . cleag ()

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Loop through a ditionaly:-

- · you can toop through a dictionary by using a tox 100 b.
- · when looping through a dictionary, the deligh Value are the keys of the dictionary, had these age methods to setup values as well.

Ex!-

for x in this dict : 62) H (X)

Brand Model Year

Ex-2:- for x in this dict: Point (thisdict [X]) # Food Mustary 1964