comparison between & collections in Python i.e., Toples, List, set, Pictionary in tabular column and small examples for such

> Python has 4 built - in data structures that can be used to hold a collection of objects, they are list, tuple, set and dictionary. They can be distinguished into mutable, immutable, set types, and mappings respectively.

- -) List ore ordered mutable sequence that can be changed ofter they have been created by adding, removing, (or) changing objects.
- Following variable name.
- TUPLES are ordered immutable sequence that store's multiple items in a single variable meaning it cannot be changed after it has been almosted.
- and common-separated objects, following the variable name.
- objects that do not support duplicated objects on such they connot be indexed.
- mothernotical operations such as intersection, union difference, and symmetric difference, ton be comied out on set down types.

Dictionary:

> A dictionary is an unordered set of keylvalue for each unique key has a value

each unique key has a value

> associated with it in the dictionary, and dictionaries

ton have any number of Pairs.

	con have ony number of					
PERCONAL CONTINUES AND RESIDENCE	pickonones	Sets on	53517 ou	Solding	Data	10
Name of Street, Street	onordered willerbon of Key-value Poirs	mulable; allegion	ordered, mutoble collection	ordered, immutable collection	DeFinition /	Sec.
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# Examples of Files

2 Lists are ordered mutoble sequences that can be cha--nged after they have been created by adding removing and changing objects.

1000 prices = [20, 40, 10,5] -) A tiste is exeated and stored pota in tuple list form.

# ages=[15,18,19,25] Print(ages)

-) Print will give con show the pota con element's in ages and print it has output.

Eruits = ["apple", "bonono", "cherry"] en gruits . append ("orange") print (freits) 003000 9d. nor 31903 4.

- -) first a List is created nos fruits -> using the "oppendi" function we add the
- elemention pata in the list

-) The orange is appede at the last of the

list.

output = T'apple", "bonana", "cherry" orange q

## Examples of tuples;

-) Tuples are ordered immutable sequence that store multiple items.

Pruit's = ('opple", "bonono", "cherry") used and they have been

-) single object tuples are referred to as a singleton.

-) It can be created by strusing a trailing common after the object, or else python identifies it as a storing.

Fruit = ( 'orange") type convit)

2311311319 (10) 010 568 Fruit = Colorange

-) commos ore what makes of tuple, as poventhese ove optical. letters = 'a', b', 'd' ore optical.

type Cretters)

a) A tuple con be - reacted by a pair of poron theses and common sereroce objects.

my tople = (C1,2,3) print (mg-tuple)

- it the last of the -) tuple's one respresented by ()
- -) Here we create a new suple
- -) print is used to get the output.

### examples of sets?

-) set can be created by using curly brackets following the variable names on using setch constructor.

letters = { b', 'a', 't', 'i'} letters = set (('b', 'o', 't', 'i'?

-> set are used to store multiple items in a single doto types vorioble.

creating o set.

Freits = & "appe," "bonana", "cherry"3 Print (Greits)

-) Here we create a new set like fruits

-) Print is used to get output 04 0000 9d 1100 30119. G

Join two set

3 010 1 600 51 = 15 " Q 1/1 " B" 1' C " 3 10 3 moss Group 13 10. E 51 = \$ 1, 2,334 casts for por sa nos 53 = 51. union (set2)

or Biond

Print(set3)

-) s. and sz will be created has set

-)-st. unioni) osing we combine the two set and stone ila, won say stoops for every e

output will be & C., 1', by, 2; 3, 8' a Prine is used to get output brown. In 2000 1000 10000

```
Frompies of Dictionories;
    -) The volues ossociated with a key can be any
    object like sets, dictionories are unordered.
                                        Para strait
              09e = & "mike : 10,
                     "LEO"=19,
                           output is Emike; 10, 100'519,
                     "peo";5
                 print (age)
                                      1000:57
   -) volues in dictionary items can be of any
    dato types.
             mydict = & 'key!": 'value!', key2'; values!
      . Print (mydict)
            Print (mydict[ Key 1'])
          mydict['key3'] = Volve3'
             Print (mydict)
  -) Print will be used to get outree:
  - oldtionory icems are presented in key; value Paixs
 can be reserved by tring the key name.
          thisdict - 5
                "brand": "ford"
                "model"; "mustong"
               1 years 1964
              Print Chnisdice "brond"
-) Here we create the new Dictionories with each
  special and it's name
+ Print represent brond which will mind nome
               outPot is ford"
 OF Brond
```