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18/30

(0 1)
→

List	touple
1) List is the mutable	touple is the unmutable.
2) Enclose in square ([]) bracket.	Inclosed in (()). square bracket.
3) List is the It can be changed a new element can be added	touple it can be the not change element can be added.
example :- list : i = [10, 00, 30]	example : touple :- (10, 20, 30)

(0 2)
| →

The set of data type in python. is used to store unique elemen- ts. sets are unordered elements Sets collection of unique items which means they automatically.

ex:- Removing from duplicate list.

numbers. with duplicate
(1, 2, 3, 3, 44, 5, 5, 5, 6)
removing duplicades
unique numbers list -
list (set (numbers with
duplicate))
print(" list with duplicate",
numbers with - duplicate";
print(" list without duplicat";
unique numbers - List)
o.p :- list with duplicate
[1, 2, 3, 3, 4, 4, 5, 5, 5, 6]
list without duplicate
[1, 2, 3, 4, 5, 6].

Q 3)
—>   Integer :-
1. Definition : Represents
whole numbers. without
a fractional part.
2. precision : Exact
values within the
range of the system's
memory.

Float :-
1. Definition : Represents
real numbers and
includes print to
accommodate fractional
values.
2. precision : Approxim-
ates of real numbers
due to finite memory

leading to possible precision issues with very large or very small numbers

EX :- import math
radius = 5.3
area = math.pi * radius * 2
print (" Radius " radius)
print (" Area of the circle" area)

O/P :- Radius 5.3
Area of circle : 88.247
33

Q4)

→ The dictionary of the data type in python from lists to the touple in of the type. Touple), Set, dictionary.

Lists :- Definition: An ordered collection of items which can be of any type.
syntax :- define using square brackets []

ex :- my - list [1, 2, 3, 4, 5]
print (my - list [0]) &

output :- 1

Touple :-

Definition :- Touple is
the unmutable of
Inclosed In a type.
Touple it can be
not change element
added.

ex :-
my - list (1. 2. 3. 4.5)
print (my. list [0])

output :-   1

Q 5)

→ A docstring in documan-
tion in python.
is a string illus-
tration literal specified
in source code
that is used docu-
ment a specific seg-
ment of code.
They are written
first segment module
function method.

ex :-

    def add (a.b) :
    "" "" ''

    Parameters :

a (int, float): the first
number

b (int, float): the
second number

returns:
int. float: the sum
of the two numbers
",   ", ":

return   a + b

② print (add . doc)

* A   string python   is   a
sequence   character.

→ for loop :-- used   to irate
to   used   sequence   or
any   other   iterable
object -
commonly   used   when
you   know   the
number   of   iteration
of   the   for
loop.

ex :-
numbers = [1, 2, 3, 4, 5].
for   num   in   numbers:
print   num

o/p :-
1
2
3
4
5
0
1
2
3
4

*while   loop :-   repeats   a
block   of   commonly
specified   condition   is
true.
- commonly   used   when
the   number   iteration
is   not   know
beforehand   and   you
to   continue   looping.

example :-
count = 0
while   count < 5:
print   (count)
count   + = 1

o/p: -

0

1

2

3

4

Q 9

→ The operation in python in used check for membership within an iterable. It determine whether a specific value exists within a collection.

ex: fruits ('apple', banana, cherry..)

print (banana" in fruits)

print (grape" in fruits")