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Q1 → List in python :- A list of the similar to collection which is the ordered and mutable of list allow duplicate the list att duplicate member

Syntax:- Lists are defined using the squre brakets

Example "[ ]"

Example of ~~tuple~~ list :-

```
# creating a list
my- list = [1,2,3,4]
# modifining a list
my- list. append (5) # Adding an element
my- list [0] = 0    # changing an element
print (my- list)  { output:- (0,2,3,4,5
```

Tuple in python :- A tuple of the immutable, ordered collection of element. Each element in a tuple can be of any type, and they are define by enclosing the element in paranthesis (),

Example :-

```
# creating a tuple
my- tuple = (1,2,3,4)
# trying to modify a tuple will
```

result in an error
my-tuple [0]=4 this will rise
a type error
print (my-tuple)

output (1,2,3,4)

Q2→ The purpose of the set data type
in python is to store an unorder.
collection of unique elements.
sets are useful of performing
mathematical set operation such
as unique, insertion, differences,
and symmetric difference

illustrate use:--the ordered of a
data does not maters
- you do not need any repeatations
- in the data element
example:- my-set = {1, 5, 7,8}
print (my-set)
o/p {5,1,7,8)

Q3 float
- float is a function or reusable
code in python that is a common
data format
- floating numbers represent machine
level double precision floating
point numbers.

• Integer
- it is classifield the Integer into
zero positive, or negative whole

numbers, with no fuctorial number use in python.

Example of floate :- import meth
radius = 5.3
print (" Radius", radius)
print (" Area of the circle"
area)

O/P :- "Radius 5:3
Area of circle; 88.247
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Q4> Dictionary data type
- The dictionary are used python the data structure that store the value in key:-value prints pairs seprate by commas and surrounded the curly brakets in dictionary.
list and tuples are different to the used of dictionary.

Example of Dictionary :-
Dict { name = "Shravani"}
print = { name = "Shravani"}

o/p :- shravani

Q5> A describe is a string used to document a python module, case, function or method.

It's specifield in Squre code that in used like a coment to document a specific segment of code.

② String in used to seprated by comm and the specific function.

Q6→ operator uses
- this operator is used to in python floor division
- Divides and returns the integer Value of the quatient.

ex:- 3 // 9
4 // 3

② o/p :-)

(7) == operator
- this operator check the value of the left of the operator is equal to the one of the right.
ex:- 3 == 3.0
o/p True
• is operator:- If two operation has a same ident
It returns true ex:- 2 is 20 / o/p / false

Q8 • += operator
- Adds and Assign operators.
- Adds the value on either side add assigns it to the expression of the left
- a+ = 10 is the same as
a = a+10
ex:- 777 a+=2
print (a)
o/p :- 9

Q9→ • in operator
- string forword to use.
it check the operator. whether
Value exicitent in a sequence
returng moolean value
true if the value
in the Sequnce
and false it is not

ex:- number = (1,2,3,4,5)
mint (3, in numbers)

OIP true.