

unit - 3  
What is slicing

Slicing is a python feature that enables accessing parts of sequences like strings, tuples, and lists. You can also use them to modify (or) delete the items of mutable sequences such as a lists.

Q. What is the difference between Del and Remove.

Del keyword:

The del keyword delete any variable, list of values from a list

Syntax:-

del list-name [index] → To delete single value  
del list-name # To delete whole list.

Remove method:

This method removes the first matching value from the list.

Syntax:-

list-name.remove(value).

Ans List is just like the arrays, I declared in other languages. Lists need not be homogenous always which makes it the most powerful tool in a python.

Syntax:

list-data = ['an', 'example', 'of', 'a', 'list']

Tuple:- is also a sequence data type that can contain elements of different data types, but these are immutable in nature. The tuple is faster than the list because of static in nature.

Syntax

tuple-data = ('this', 'is', 'an', 'example', );

1) Define list and Give examples?

Ans A list is similar to an array, that consists group of elements (or) items. Just like an array, a list can store elements.

Q.

ex:- 1) Student = [556, "mother", 804, 9, 6, 804, 75]

Print Student [0].

output [556, 'mother', 804, 9, 6, 804, 75, 84]

Qns what is cloning of list.

In case we have one list of elements but with two different names "x" and "y". Here "x" is the original name and y is the alias name for the same list. Any modification, done to "x" and will also modify and vice versa. obtaining exact copy of an existing object is called "Cloning".

$$x = [10, 20, 30]$$
$$y = \pi$$

print a [10, 20, 30] → out put

3. what is aliasing?

Ans. Aliasing is a new name to an existing list is called aliasing the new name is called ~~new~~ various name to provide a new name to this list, we can use assignment operator

五

$$x = [10, 20, 30]$$
$$y = x$$

8 print a ~~==~~ [10, 20, 30]

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c print y # [10, 20, 30]
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$$x[1] = 90$$

```

    & print x # [10, 10, 20, 30]

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. print y # [" " " "]
```

Define tuple and examples?

Tuple is also a sequence.

Shows the 9. Question.

9

6. Define Dictionary examples?

Q. 6. Define Dictionary Examples?  
Ans Dictionary Represents a group of elements arranged in the form of key values. The first element is considered as key and the immediate next element is taken

Value sep locy and value are separated.

7) List write the datatypes of list.

Ans list index (x)

list append (x)

list insert (i, x)

list copy ()

list extend

3. When append () method, add its argument as single element to the end of a list. The length of the list itself will increase by one. Where go extend () method. Over its argument adding each element to the list. Extending the list.