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Lists in python

In python, the sequence of various data types is stored in a list. A list is a collection of different kinds of values or items. Since Python lists are mutable, we can change their elements after forming. The comma (,) and the square brackets [enclose the list's items] serve as se prators.

Although six puthon data types can trold sequences , the list is the most common and teliable form. Al list , a type of sequence data is used to store the collection of data.

List declaration: @ curious_programmer

sample list list? = [1,2," Python", "Program", 15:9] list? = ["Amy", "Ryan", "Henry", "Emma"]

Printing list Print(list1) Print(list2)

printing the type of list
print (type(list1))
print (type(list2))

Output:

[1, 2, 'python', 'Program', 15.9]
['Amy', 'Ryan', 'Henry', 'Emma']
<class, 'list'>
<class, 'list'>

Characteristics of lists:

The characteristics of the List are as follows:

- · The lists are in order.
- · The list element can be accessed via the index
- · The type list is mudable
- · The rundowns are changeable sorts
- . The number of various elements can be stored in a list

Ordered List checking:

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#example

q=[1,2,"Ram", 3.50, "Rahul", 5,6] b=[1,2,5, "Ram", 3.50, "Rahul", 6] q==b

Output

False

The indistinguishable components were remembered from

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Python List Operations:

The concatenation (t) and repetition (*) operators work in the same way as they were working with the strings. The different operations of lists are:

- 1. repetition
- 2. Concatenation
- 3. Length

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- 4. Iteration
- 5 · Membership

1. Repetition:

The redundancy administrator empowers the rendown components to be rehashed on different occasions.

repetition of list # declaring the list

list = [12,94,16,18,20]

repetition operator *

1=110+1 * 2

print(1)

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Maria I	Annual Co.

[12,14,16,18,20,12,14,16,18,20]

2. Concatenation

It concatenates the list mentioned on either side of the operator

concatenation of two lists # declaring the lists

list1 = [12,14, 16, 18, 20] list2 = [9,10,32, 15,86]

concatenation operation +

| = list1 + list2 Print(1)

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Output:

[12,14,16,18,20,9,10,32,15,86]

3. Length

It is used to get the length of the list

#size of the list #dedaring the list

list1 = [17.14,16,18,20,23,27,39,40] # finding the length of the list len (list1)

Output:

9

4. Iteration

The for loop is used to iterate over the list elements.

Heration of the list

declaring the list

list = [12, 14, 16, 39, 40]

Herating

for i in list1:

point(i)

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Output:

12

14

16

39

40

5. Membership:

It returns true if a particular item exists in a

1 1	1		5
particular lis	t other	rice falco	,
1		isc publ	-

membership of the list # declaring the list list = [100,200,300,400,500]

true will be pointed if value exists # and false is not

Print (600 in list1) point (200 in list1) print (110 in list)

Output:

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False true False

Appending / Adding element in list:

The append function in Python can add a new item to the list In any case, the annex of capability can enhance the finish of the function.

1 = [1,2,3,4] 1. append (6) s

Output:

1, 2, 3, 4, 6

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Removing element in the list:

an element from the List. To comprehend this idea, look at the example:

list = [0,1,2.3,4] list remove(2)

output:

0,1,3,4

@ amous_programmer

PDF uploaded on

Telegram (Link in bio)



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