Lists in Python



Outlines

- Lists
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- · Insert method
- Join two lists
- · Length of lists
- Specify item in the list
- Exercise

Lists

Lists are used to store multiple items in a single variable. Lists are created using square brackets(i.e. []).

```
In [5]:
```

```
item = ['banana','apple','cherry']
item

Out[5]:
```

['banana', 'apple', 'cherry']

item

0	banana
1	apple
2	cherry

```
In [2]:
# access the last character 'cherry'
item[2]
Out[2]:
'cherry'
In [7]:
# access the last element with negative index
item[-1]
Out[7]:
'cherry'
In [8]:
item[-3]
Out[8]:
'banana'
In [9]:
# Strings are mutable
# change 'bannana' into 'orange'
item[0]='orange'
item
Out[9]:
['orange', 'apple', 'cherry']
Append method
In [10]:
# insert 'pasta' as the last element in the list
item.append('pasta')
item
Out[10]:
['orange', 'apple', 'cherry', 'pasta']
```

Insert method

```
In [12]:
# insert 'bread' as the second element in the list
item.insert(1,'bread')
item
Out[12]:
['orange', 'bread', 'apple', 'cherry', 'pasta']
Join two lists
In [14]:
11 = ['bread','pasta','fruits']
12 = ['soap','shampo']
1 = 11 + 12
1
Out[14]:
['bread', 'pasta', 'fruits', 'soap', 'shampo']
Length of list
In [16]:
len(item)
Out[16]:
5
Specify item in the list
In [17]:
'bread' in item
Out[17]:
True
In [18]:
'book' in item
Out[18]:
False
```

Exercise:

You have a list of your favourite movies.

```
movies=['shawshank redemption','cinema paradiso','cast away','seven pound
s','passenger']
```

Using this find out,

- 1. Length of the list.
- 2. Add 'persuit of happiness' at the end of this list.
- 3. Remove 'persuit of happiness' from the end and add it after 'cast away'.
- 4. Remove 'cinema paradiso' and 'cast away' and replace them with 'dark night'.

Do that with one line of code.

5. Sort the movies list in alphabetical order.

Click here for solution part 1

Click here for solution part 2

Click here for solution part 3

Click here for solution part 4

Click here for solution part 5

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