List methods

September 25, 2023

1 APPEND()

[1]:
```
currencies=["dollar","euro","pound"]
currencies.append("yen")
print(currencies)
```

```
['dollar', 'euro', 'pound', 'yen']
```

2 ADDING A LIST TO A LIST

[6]:
```
animals=["cat","dog","rabbit"]
wildanimals=["tiger","fox"]
animals.append(wildanimals)
print(animals)
```

```
['cat', 'dog', 'rabbit', ['tiger', 'fox']]
```

[5]:
```
animals=["cat","dog","rabbit"]
wildanimals=["tiger","fox"]
animals.extend(wildanimals)
print(animals)
```

```
['cat', 'dog', 'rabbit', 'tiger', 'fox']
```

3 CLEAR()

[8]:
```
primenumbers=[2,3,5,7,11]
primenumbers.clear()
print(primenumbers)
```

```
[]
```

4 COPY()

[1]:
```
primenumbers=[2,3,5,7,11]
a=primenumbers.copy()
print(a)
```

```
[2, 3, 5, 7, 11]
```

[15]:
```
primenumbers=[2,3,5,7,11]
b=primenumbers
b.append("hello")
print(primenumbers)
print(b)
```

```
[2, 3, 5, 7, 11, 'hello']
[2, 3, 5, 7, 11, 'hello']
```

5 COUNT()

[17]:
```
numbers=[2,3,5,2,11,2,7]
b=numbers.count(2)
print(b)
```

```
3
```

6 EXTEND()

[19]:
```
primenos=[2,3,5]
no=[1,4]
no.extend(primenos)
print(no)
```

```
[1, 4, 2, 3, 5]
```

[20]:
```
languages=["french","english"]
languages1=["spanish","portuguese"]
languages.extend(languages1)
print(languages)
```

```
['french', 'english', 'spanish', 'portuguese']
```

[1]:
```
a=[2,3,5]
b=[1,4]
a=a+b
```

```
print(a)
```

```
[2, 3, 5, 1, 4]
```

7 INDEX()

[22]:
```
animals=["cat","dog","rabbit","horse"]
print(animals.index("dog"))
```

```
1
```

[28]:
```
alp=["a","e","i","o","g","l","i","u"]
b=alp.index("i",4)
print(b)
```

```
6
```

8 INSERT()

[2]:
```
prino=[2,3,5,11,13]
prino.insert(3,7)
print(prino)
```

```
[2, 3, 5, 7, 11, 13]
```

9 POP()

[15]:
```
prino=[2,3,5,7,11]
b=prino.pop(2)
print(prino)
```

```
[2, 3, 7, 11]
```

10 REMOVE()

[38]:
```
prino=[2,3,5,7,11,2]
prino.remove(2)
print(prino)
```

```
[3, 5, 7, 11, 2]
```

[40]:
```
animals=["cat","dog","dog","rabbit","dog"]
animals.remove("dog")
print(animals)
```

```
['cat', 'dog', 'rabbit', 'dog']
```

11 REVERSE()

[42]:
```
prino=[2,3,5,7,11,2]
prino.reverse()
print(prino)
```

```
[2, 11, 7, 5, 3, 2]
```

12 SORT()

[3]:
```
n=[5,6,11,1,3,21,13,16,46]
n.sort()
print(n)
n.sort(reverse=True)
print(n)
```

```
[1, 3, 5, 6, 11, 13, 16, 21, 46]
[46, 21, 16, 13, 11, 6, 5, 3, 1]
```

13 Slicing

[14]:
```
l1=list()
l1.append([[16,17,18],[20,22],[32,34]])
l1.extend([90,92,96])
print(l1)
print(l1[3]-l1[0][1][1]) #96-22
print(l1[0][0][1]+l1[0][2][1]) #17+34
```

```
[[[16, 17, 18], [20, 22], [32, 34]], 90, 92, 96]
74
51
```

[4]:
```
l1=list()
l1.append([1,[2,3],4])
l1.extend([7,8,9])
print(l1)
```

```
print(l1[0][1][0]+l1[3])
```

```
[[1, [2, 3], 4], 7, 8, 9]
11
```

[27]:
```
a="software"
l=list(a)
print(l[-2:1:-1])
print(l[1:])
print(l[1:6:2])
print(l[1:1])
print(l[:4])
```

```
['r', 'a', 'w', 't', 'f']
['o', 'f', 't', 'w', 'a', 'r', 'e']
['o', 't', 'a']
[]
['s', 'o', 'f', 't']
```

[34]:
```
a=list("123456")
print(a)
a[0]=a[5]='0'
a[-3]=a[-2]          # 0,2,3,5,5,0
print(a)
```

```
['1', '2', '3', '4', '5', '6']
['0', '2', '3', '5', '5', '0']
```