

Count in a Python List

- counting the number of items within a list

CLASSIC WAY

```
12 numbers = [1,1,2,8,4,5,3,8,2,1,6,3,8,1,6,8]
13 eights = []
14 for x in numbers:
15     if x == 8:
16         eights.append(x)
17 print(f'The number of eights: {len(eights)}')
18
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python

```
→ ~ /opt/homebrew/bin/python3 /Users/tepe/Desktop/GitHub/VSCODE/P
The number of eights: 4
```

LIST COMPREHENSION

```
12 numbers = [1,1,2,8,4,5,3,8,2,1,6,3,8,1,6,8]
13
14 eights = [x for x in numbers if x == 8]
15 count_eights = len(eights)
16 print(f'The number of eights: {count_eights}')
17
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python

```
→ ~ /opt/homebrew/bin/python3 /Users/tepe/Desktop/GitHub/VSCODE/PYT
The number of eights: 4
```

FILTER FUNCTION & LAMBDA

```
19 numbers = [1,1,2,8,4,5,3,8,2,1,6,3,8,1,6,8]
20
21 eights = list(filter(lambda x: x == 8, numbers))
22
23 count_eights = len(eights)
24
25 print(f'The number of eights: {count_eights}')
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python

```
→ ~ /opt/homebrew/bin/python3 /Users/tepe/Desktop/GitHub/VSCODE/PYTHON/051
The number of eights: 4
```

!!! Remember filter() function returns an object. That's why, we use list!!

COUNT METHOD

```
24 numbers = [1,1,2,8,4,5,3,8,2,1,6,3,8,1,6,8]
25
26 count_eights = numbers.count(8)
27
28 print(f'The number of eights: {count_eights}')
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python

```
→ ~ /opt/homebrew/bin/python3 /Users/tepe/Desktop/GitHub/VSCODE/PYTHON/051
The number of eights: 4
```

Simplicity!