<https://www.youtube.com/watch?v=XCcpzWs-CI4>

>>> counts = {"apple":1, "banana": 2}  
>>> counts  
{'apple': 1, 'banana': 2}  
>>> counts["apple"]  
1  
>>> counts["apple"] = 3  
>>> counts  
{'apple': 3, 'banana': 2}  
>>> for i in counts:  
...     print(i)  
...  
apple  
banana  
>>> for i in counts:  
...     print(counts[...     print(coun  
KeyboardInterrupt  
>>>  
>>>  
>>>  
>>> for i in counts:  
...     print(i)  
...  
apple  
banana  
>>> for i in counts:  
...     print(counts[i])  
...  
3  
2  
>>> for i in counts:  
...     print(i,counts[i])  
...  
('apple', 3)  
('banana', 2)  
>>> count["potato"] = 100  
Traceback (most recent call last):  
  File "<stdin>", line 1, in <module>  
NameError: name 'count' is not defined  
>>> counts["potato"] = 100  
>>> counts  
{'potato': 100, 'apple': 3, 'banana': 2}  
>>> for i in counts:  
...     print(i,counts[i])  
...  
('potato', 100)  
('apple', 3)  
('banana', 2)  
>>> for i in counts:  
...     counts["tomato"] = 1  
...  
Traceback (most recent call last):  
  File "<stdin>", line 1, in <module>  
RuntimeError: dictionary changed size during iteration  
>>> for i in counts:  
...     counts["apple"] = 1  
...  
>>> counts  
{'tomato': 1, 'potato': 100, 'apple': 1, 'banana': 2}  
>>> len(counts)  
4  
>>> for i in range(len(counts))  
  File "<stdin>", line 1  
    for i in range(len(counts))  
                              ^  
SyntaxError: invalid syntax  
>>> for i in range(len(counts)):  
...     print(i)  
...  
0  
1  
2  
3  
>>> for i in range(len(counts)):  
...     counts[i]  
...  
Traceback (most recent call last):  
  File "<stdin>", line 2, in <module>  
KeyError: 0  
>>> counts  
{'tomato': 1, 'potato': 100, 'apple': 1, 'banana': 2}  
>>> counts[0]  
Traceback (most recent call last):  
  File "<stdin>", line 1, in <module>  
KeyError: 0  
>>> numbers = {0:"apple", 1:"banana"}  
>>> numbers  
{0: 'apple', 1: 'banana'}  
>>> for i in range(len(numbers))  
  File "<stdin>", line 1  
    for i in range(len(numbers))  
                               ^  
SyntaxError: invalid syntax  
>>> for i in range(len(numbers)):  
...     print(numbers[i])  
...  
apple  
banana  
>>> ingredients = {'dosa':['batter','chutney']}  
>>> ingredients  
{'dosa': ['batter', 'chutney']}  
>>> ingredients['dosa']  
['batter', 'chutney']  
>>> ingredients['dosa'].append('sambar')  
>>> ingredients  
{'dosa': ['batter', 'chutney', 'sambar']}  
>>> ingredients['idly'].append('urad dal')  
Traceback (most recent call last):  
  File "<stdin>", line 1, in <module>  
KeyError: 'idly'  
>>> ingredients['idly'] = 'batter'  
>>> ingredients['idly'].append('urad dal')  
Traceback (most recent call last):  
  File "<stdin>", line 1, in <module>  
AttributeError: 'str' object has no attribute 'append'  
>>> ingredients  
{'dosa': ['batter', 'chutney', 'sambar'], 'idly': 'batter'}  
>>> ingredients['idly'] = ['batter']  
>>> ingredients  
{'dosa': ['batter', 'chutney', 'sambar'], 'idly': ['batter']}  
>>> ingredients['idly'].append('urad dal')  
>>> ingredients  
{'dosa': ['batter', 'chutney', 'sambar'], 'idly': ['batter', 'urad dal']}  
>>> >>> for i in counts:  
...     ingredients[i] = ['dummy']  
...  
Traceback (most recent call last):  
  File "<stdin>", line 1, in <module>  
NameError: name 'countsunts' is not defined  
>>> for i in counts:  
...     ingredients[i] = ['dummy']  
...  
>>> ingredients  
{'tomato': ['dummy'], 'apple': ['dummy'], 'potato': ['dummy'], 'dosa': ['batter', 'chutney', 'sambar'], 'idly': ['batter', 'urad dal'], 'banana': ['dummy']}