1. What does an empty dictionary's code look like? my_dict = {} my_dict = dict()

In [5]:

```
'''2. What is the value of a dictionary value with the key 'foo' and the value 42?'''

dict={'foo':42}

value=dict['foo']
print(value)
```

42

In [ ]:

```
'''3. What is the most significant distinction between a dictionary and a list?

list: a list is an ordered collection of elements
dictionary: a dictionary is an unordered collection of key-value pairs'''
```

In [ ]:

In [8]:

```
#4. What happens if you try to access spam['foo'] if spam is {'bar': 100}?

spam = {'bar': 100}
value = spam['foo']

'''raised a key error because foo is not the valid key in dictionary spam'''
```

```
---------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
Cell In[8], line 4
      1 #4. What happens if you try to access spam['foo'] if spam is {'bar': 100}?
      3 spam = {'bar': 100}
----> 4 value = spam['foo']

KeyError: 'foo'
```

In [ ]:

In [ ]:

```
'''5. If a dictionary is stored in spam, what is the difference between the
    expressions 'cat' in spam and 'cat' in spam.keys()?

spam={'cat'}
'cat' in spam
>his expression checks whether the key 'cat' exists in the dictionary spam.
>it returns a Boolean value True or False
>indicating whether the key 'cat' is present as a direct key in the dictionary.

#spam={'cat'}
#'cat' in spam.keys()

>this expression also checks whether the key 'cat' exists in the dictionary spam
>it does so by explicitly calling the keys() method of the dictionary to obtain a list of
keys
and then checking if 'cat' is in that list.'''
```

In [ ]:

In [ ]:

```
'''6. If a dictionary is stored in spam, what is the difference between the expressions c
at' in spam and
'cat' in spam.values()?


'cat' in spam:

this expression checks whether the key 'cat' exists in the dictionary spam.

'cat' in spam.values():

this expression checks whether the value 'cat' exists in the dictionary spam among its va
lues.'''
```

In [ ]:

In [ ]:

In [ ]:

```
'''7. What is a shortcut for the following code?
if 'color' not in spam:
spam['color'] = 'black''''

#spam.setdefault('color', 'black')
```

In [ ]:

In [ ]:

In [ ]:

```
'''8. How do you 'pretty print' dictionary values using which module and function?

You can "pretty print" dictionary values in Python using the
pprint module and its pprint() function. '''
```

In [ ]: