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SUBJECT: Full Stack Data Science

ANSWERS

1. What does an empty dictionary's code look like?

Two curly brackets: {}

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

```
{'foo': 42}
```

In [1]:

```
{'foo': 42}
```

Out[1]:

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

The items stored in a dictionary are unordered, while the items in a list are ordered.

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

```
spam= {'bar': 100}
```

In [2]:

```
spam['foo']
```

In [5]:

```
----- KeyError
```

Traceback (most recent call last)

```
<ipython-input-5-9b5a94d1de8d> in <module>
```

```
----> 1 spam['foo']
```

KeyError: 'foo'

We get a KeyError error.

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

There is no difference. The in operator checks whether a value exists as a key in the dictionary.

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

'cat' in spam checks whether there is a 'cat' key in the dictionary, while 'cat' in spam.values() checks whether there is a value 'cat' for one of the keys in spam.

7. What is a shortcut for the following code?

```
if 'color' not in spam: spam['color'] = 'black'  
spam.setdefault('color', 'black')
```

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

```
pprint.pprint()
```