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

Answer: Two curly brackets: {}

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

Answer:

```
In [1]: 1 {'fool':42}
Out[1]: (42,)
```

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

Answer:A list is an ordered sequence of objects, whereas dictionaries are unordered sets. However, the main difference is **that items in dictionaries** are accessed via keys and not via their position.

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

Answer: If we try to acess it, it's through a keyError

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

Answer: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()?

Answer:'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'

Answer: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?

Answer:Within the pprint module there is a function with the same name pprint(), which is the function used to pretty-print the given string or object pprint.pprint()