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

An empty dictionary looks like "{}".

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

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In [ ]: 1 {"foo":42} # 'foo' is the key and 42 is value of the dictionary
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3. What is the most significant distinction between a dictionary and a list?

Distinction between a dictionary and a list is given as follows:

- 1. In Lists data is stored in square brackets '[]' while in dictionary data is stored in curve brackets '{}'.
- 2. List is an ordered collection of elements and Dictionary is unordered collection of elements.
- 3. In a list, you access elements by their index position. On the other hand, dictionaries do not use index-based access.
- 4. Lists allow duplicate elements but in Dictionary duplicate keys are not allowed.

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

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

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

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

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