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

Answer: Empty Dictionary can be written as two enclosed curly bracket i.e. {}.

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

Answer: {'foo':42}

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

Answer: Elements in List as accessed using indices which are numbers staring from 0. Dictionary elements are accessed using key-value pair.

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

Answer: As there is no key 'foo' present in spam dictionary, we will get 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 , both will check for key 'cat' in spam 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: Expression 'cat' in spam will check if there is key 'cat' in dictionary, while 'cat' in spam.values() will check if there is any value 'cat' in dictionary spam for any key.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Answer: spam.setdefault('color', 'black')

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

Answer: pprint module and pprint function is used to "pretty print" dictionary values.