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

It looks like {}

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

{'foo': 42}

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

Dictionary will have key specified, where as list will have default sequence number

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

It throws run time exception of KeyError

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': 'bala'}

'cat' in spam —-> this checks if 'cat' is present in spam keys or not

'cat' in spam.keys() —-> this checks if 'cat' is present in spam keys or not

Both expression prints true.

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 —-> this checks if 'cat' is present in spam keys or not, and here it prints True

'cat' in spam.values() —-> this checks if 'cat' is present in spam values or not and here it prints False

7. What is a shortcut for the following code?

if 'color' not in spam:

       spam['color'] = 'black'

This will append one item with key color and respective value as black

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

Using pprint module and pprint() function we print pretty print dictionary values.