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

Empty dictionary code is an empty curly brackets: a = {} or a = dict()

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 are represented as {} while list are []. Dictionary contains unordered sequence and list contains ordered sequence.

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

Error as ‘foo’ is not assigned anything

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 spam.keys() will check for key.

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 will check for key in dictionary, whereas ‘cat’ in spam.values() will check for value associated with “cat”

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?

by using pprint() function of pprint module

by using dumps() method of json module

by using dumps() method of yaml module