**Solutions:**

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

**Ans:** d = {} or d = dict()

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

**Ans:** {‘foo’: 42}

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

**Ans**: List id ordered but Dictionary is unordered.

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

**Ans**: We will get a keyError KeyError: 'foo'

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

**Ans**: No difference. Both will check for a key, ‘cat’ 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()?

**Ans:** ‘cat’ in spam would search for a key, ‘cat’. But ‘cat’ in spam.values() would search for the value ‘cat’ assigned to any key.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

**Ans**: spam.setdefault(‘color’,’black’)

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

**Ans:** by using pprint() function of pprint module.

Or by using dumps() function of json module.