**Solutions:**

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

Ans: d= {}

**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: The items stored in a dictionary are unordered, while the items in a list are ordered.

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

Ans: You get a KeyError error

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

Ans: There is no difference. The in operator checks whether a value exists as a key 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 checks whether there is a 'cat' key in the dictionary, while 'cat' in spam.values() checks whether there is a value 'cat' for one of the keys in spam.

**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: pprint.pprint()