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

dict = {}

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

42

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

* List is created by placing elements and each element can be accessed using the index value.
* Dictionaries are created using key value pairs where each value can be accessed using a key.

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

It will give a Key Error as there is no key with the name ‘foo’ in spam.

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

* 'cat' in spam will return the value for the key ‘cat’ in spam.
* 'cat' in spam.keys() will return a boolean whether spam has a key named ‘cat’ or not.

**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 return the value for the key ‘cat’ in spam.
* 'cat' in spam.values() will return a boolean whether spam has a value named ‘cat’ or not.

**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?**

import pprint

pprint.pprint(spam)