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

Ans. empty dictionary is set to {}.

**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. . A list refers to a collection of various index value pairs like that in the case of an array. A dictionary refers to a hashed structure of various pairs of keys and values.

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

Ans . it will throw an 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.

**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-We have to call pprint module and then we have to call pprint() function pprint.pprint()