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

**Solution:-**  { }

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

**Solution:-** { ‘foo’ : 42}

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

**Solution:-** main difference is dictionaries are unordered & so here keys are act as a indices to access

It’s items Whereas, lists are ordered in nature & it’s elements accessed by doing

elementwise indexing.

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

**Solution:-** It will give 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()?**

**Solution:-** There is nodifference between the given two expressions. 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()?**

**Solution:-** The **‘**cat’ in spam checkswhether there is a ‘cat’ key in the dictionary Whereas,

‘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’**

**Solution:-** shortcut is ,

spam.setdefault( ‘color’, ‘black’ )

**8. How do you “pretty print” dictionary values using which module and function?**

**Solution:-** Using pprint module and pprint() function as,

pprint.pprint( )