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

Ans: {}

**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: In List elements are accessed by index values, but in dictionary elements are accesses via keys.

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

Ans: It will give error as they is no key value ‘foo’ present in the spam dictionary.

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

Ans: Both 'cat' in spam and 'cat' in spam.keys() will give the same result, it will look for matching key in the dictionary and if found will return True, else False. 'cat' in spam is much faster and time complexity is O(1) irrespective of number of Keys. Whereas 'cat' in spam.keys() is relative slower and time complexity is O(n).

**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 will check the ‘cat’ value as key and 'cat' in spam.values() will check the ‘cat’ value as values in the dictionary.

**7. What is a shortcut for the following code?**

**if 'color' not in spam:**

**spam['color'] = 'black'**

Ans: spam['color'] = spam.get('color', 'black')

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

Ans: module 🡪 pprint, function 🡪 pprint