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

**Answer:** dict1={}  
This is the representation of empty dictionary

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

**Answer:** 42,the value of the key ‘foo’ is 42

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

**Answer:** In a dictionary, the data is accessed using keys whereas in a list, the data is accessed using indexes.  
The keys in dictionary must be unique as it reads the 1st occurrence whereas in a list we can have duplicated data.

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

**Answer:** This will throw an error as KeyError: ‘foo’

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

**Answer:** 'cat' in spam expression check and return True if ‘cat’ exists directly in spam.  
'cat' in spam.keys() expression first creates an object to view the keys and then checks if ‘cat’ is present in the view object 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()?**

**Answer:** 'cat' in spam expression check and return True if ‘cat’ exists directly in spam.  
'cat' in spam.values() expression first creates an object to view the values and then checks if ‘cat’ is present in the view object or not.

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

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

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

**Answer:** spam.setdefault(‘color’,’black’)

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

**Answer:** This can be done using pprint module and pprint() function  
import pprint  
dict1={'first\_name':'abc', 'middle\_name': 'def', 'last\_name':'xyz'}  
pprint.pprint(dict1)