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

**Ans: emptydict = {}**

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

**Ans : 42**

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

**Ans: List in python collection of index values while dictionary is a collection of key value pair**

**List example : list1 =[1,2, ‘anita’]**

**Dictionary example: dict ={‘key’ : ‘anita’, ‘a’:123}**

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

**Ans: It will throw KeyError ‘foo’ as the key does not exist**

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

**Ans  The in operator checks whether a value exists as a key in the dictionary. 'cat' in spam.keys() checks whether there is a 'cat' 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()?

**The in operator checks whether a value exists as a 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?

**import pprint**

**pprint.pprint(dict)**