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

**Ans:d=dict() or d={}**

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

**Ans:t={‘foo’:42}**

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

**Ans: In dictionary uses key to access the values and we can use any data type as key**

**List uses index to access the values and it should be of integer type only**

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

**Ans:Key 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: In first expression we are trying to find the cat in dictionary spam and if cat is a key of spam then only it returns true**

**In second expression we are exactly searching cat in spam dictionary keys**

**Both are same only**

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

**Ans: In first expression we are trying to find the cat in dictionary spam and if cat is a key of spam then only it returns true**

**In second expression we are exactly searching cat in spam dictionary values. And if it is present in spam.values() then it will return True**

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: module pprint**

**pprint.pprint()**