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

**{}**

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

**{‘foo’: 42}**

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

**Dictionary is unordered and it does not have indices, instead it has key-value pairs. List is ordered and values are indexed.**

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

**It will throw an error, because ‘foo’ 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()?

**No difference, because it checks if ‘cat’ key exists in spam.**

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

**‘cat’ in spam, checks if there is a key ‘cat’ in dictionary, while ‘cat’ in spam.values() checks for a value ‘cat’ stores in one of the keys.**

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

**we can use spam.setdefault(‘color’, ‘black’). If this key does not exist, it will create a new value-pair.**

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

**You have to import pprint module and use pprint.pprint() passing dictionary in it.**