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

Ans: if a is dictionary, an empty dictionary looks like a={ }

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

Ans: value =42

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

Ans: a dictionary is always a key value pair and list is a sequence of any kind of object including a dictionary kind of object.

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

Ans: keyError, because there is no such keyvalue pair as ‘foo’ in the dictionary spam.

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() evaluates and gives boolean output as True or False depending on whether ‘cat’ is in key pair.

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 evaluates and gives boolean output as True or False depending on whether ‘cat’ is in key pair. 'cat' in spam.values() evaluates and gives boolean output as True or False depending on whether ‘cat’ is in value pair.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Ans: spam['color']='black'

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

Ans: pprint module and using function pprint()