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

***Ans****: dictionary = {}*

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

***Ans****: value will be 42 for {“foo”:42}*

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

***Ans****: list is collection of index values as array, but dictionary is structured in key: value pair*

*Also, items in list are in ordered while in dictionary they are unordered*

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

***Ans****: will get the key error KeyError: 'foo'.*

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

***Ans****: there will no difference as operator check whether a value exists as a key in the dictionary.*

1. 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 check whether there is “cat” key in the dictionary, while “cat” in spam.values() checks whether there is value “cat” in 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?

***Ans****: pprint() also by importing json module json.dumps()*