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

Ans: d = {}

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

Ans: d = {‘foo’ : 42 }

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

Ans: dictionary contains a key value pair while list contains single element of values.

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

Ans: we will get KeyError

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

Ans: No difference both will check for matching key in dictionary spam.

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 will look for the matching key in the dictionary while 'cat' in spam.values() will look for matching value in dictionary.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Ans: spam.setdefault(‘color’, ‘black’)

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

Ans: by importing pprint module.