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

Ans. Two curly brackets {}

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

Ans. {‘foo’ : 42}

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

Ans. Items in a list are in order so that you can iterate on index while items in a dictionary are unordered.

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

Ans.   
This will give key error. (key error :’ 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 is no difference, both check if ‘cat’ is key of the dictionary and if it’s a key, returns True.  
spam = {‘cat’ : 4}  
 ‘cat’ in spam  
True  
 ‘cat’ in spam.kay()  
True

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 a ‘cat’ kay in the dictionary.

‘cat’ in spam.values() checks whether there is a value ‘cat’ for one of the kay in spam.

spam = {‘cat’ : 4}

‘cat’ in spam

True

‘cat’ in spam.values()  
False

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

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

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

Ans.  
pprint.pprint()