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

Ans 1:- empty dictionary’s code look like a empty = {} ;

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

Ans 2:- the value of a dictionary value with key ‘foo’ and the value 42 is {‘foo’:42}

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

Ans 3:- The most significant distinction between a dictionary and a list is in dictionary there is a hash type structure that is key value pair is there but in list there is indexes like an array.

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

Ans 4:- You will get key error.

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

Ans5:- There is no difference in both of these both are telling that cat key is presenting in the spam dicitionary.

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

Ans 6:- In this difference is that cat in spam means cat key is present in the spam dictionary or not but in cat in spam.values() means that value of cat key is present in the spam dictionary .

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Ans 7:- the Shortcut of the following code is spam.setdefault('color', 'black');

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

Ans 8:- pretty print dictionary values using module and function is pprint.pprint().