1)what does an empty dictionary code look like ?

Ans : In Python to create an empty dictionary, we can assign no elements in curly brackets {}. We can also create an empty dictionary by using the dict() method it is a built-in function in Python and takes no arguments.

2)what is the value of dictionary value with they key foo and the value 42 ?

Ans : {'foo': 42}

3) what is the most significant distinction between a dictionary & list ?

Ans : The items stored in a dictionary are unordered, while the items in a list are ordered.

4)what happens if you try to access spam[foo] if spam is ['bar' :100]?

Ans : You get a KeyError error.

5)if a dictionary is stored in spam ,what is difference between the expression 'cat' in spam and 'cat' in spam.keys().?

Ans : There is no difference. The in operator checks whether a value exists as a key in the dictionary.

6) a dictionary is stored in spam ,what is difference between the expression 'cat' in spam and 'cat' in spam.values().?

Ans : cat' in spam checks whether there is a 'cat' key in the dictionary, while 'cat' in spam.values() checks whether there is a value 'cat' for one of the keys in spam.

7)what is a shortcuts 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.pprint().