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

Ans:-An empty dictionary looks like { }.

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

Ans:{‘foo’:42}

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

Ans:- List contains items of different types and they are ordered.

Dictionary holds values in the form of key and value pair and they are unordered.

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

Ans:-It will throw error as keyError.

5. 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 between cat in spam and cat in spam.keys() as itn operator will search for values that exists or not.

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

Ans:- In the first case ‘cat’ in spam checks for cat key in the dictionary while ‘cat’ in spam.values() checks for whether it has ‘cat’ as the keys in the spam.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Ans:- The shortcut for the above formula will be

spam.setdefault('color', 'black')

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

Ans:- In python there is in built module present as pprint for ‘Prettyprint’.It helps to print in better way with formatted data structure like dictionaries.