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

Empty dictionary's code look like two curley bracket {}

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

{'foo': 42}

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

List

List is a mutable type it can be modified after they have been created. They maintain their ordering unless explicitly re-ordered.They can be of any type, and types can be mixed and it indices the zero.

Dictionary

Every entry has a key and a value. Unordering the elements and the elements are accessed using key values.

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

KeyError:'foo'

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

Nothing difference in 'cat' in spam and 'cat ' in spam.keys( ) both the statment. Because the 'in' operator whether it's check 'cat' is mentioned in spam and it is key value 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()?

'cat' in spam this statement checks in dictionary 'cat' is mentioned in key or not." 'cat' in spam.values() " this statement checks the values of keys in dictionary.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

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

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

pprint.pprint()