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

{}

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

Numeric 42

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

Dictionary is maintained in the form of key value pair separated by colon but in case of list it can hold any form of data as numeric, string, boolean etc. Iteration with data values in dictionary is possible using the key but in case of list its iteration is possible by index values.

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

We get an error as there is no key name as foo in the dictionary spam.

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

Both mean the same as if we test both the codes it will give the same output, only difference is how we have written the code ni one place we specifically mentioned to search in keys. But even though we don’t mention that it will still look in the keys.

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 will search for a match in the keys but 'cat' in spam.values() will specifically look for the word in the values field.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

spam = {'color':'black' for x in spam.keys()}

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

import pprint

dct\_arr = [

{'Name': 'John', 'Age': '23', 'Country': 'USA'},

{'Name': 'Jose', 'Age': '44', 'Country': 'Spain'},

{'Name': 'Anne', 'Age': '29', 'Country': 'UK'},

{'Name': 'Lee', 'Age': '35', 'Country': 'Japan'}

]

pprint.pprint(dct\_arr)