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

Ans: {}

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: The most significant distinction between a dictionary and a list is dictionary is an unordered collection of key-value pairs whereas list is an ordered collection of elements.

In dictionary, values are accessed by their corresponding keys, whereas in a list, elements are accessed by their indices.

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

Ans: keyError arises as key doesnt exists

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

Ans: 'cat' in spam checks if the string'cat' is a key present in the dictionary spam while 'cat' in spam.keys() checks if 'cat' is a key in spam.

Both checks likewise the main difference is that keys() method explicitly checks with keys

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

Ans: The difference between the expressions 'cat' in spam and 'cat' in spam.values() is that the first expression checks if 'cat' is a value in any of the values whereas the second explicitly uses the values() method to obtain the values before performing any check.

7. What is a shortcut 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: To “prettyy print” dictionary values we can use thr pprint modules and pprint() function by importing pprint

pprint.pprint(dictionary)