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

* To create an empty dictionary, we have to create a variable name which will be the name of the dictionary. Then, assign the variable to an empty set of curly braces, {} .

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

* d = {"foo" : 42 }

print(d)

* Output : {'foo': 42}

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

* Lists can store any data types that not need to be the homogeneous always which makes it a most powerful tool in Python. A single list may contain Datatypes like Integers, Strings, as well as Objects. The elements of the lists are accessed via indices.

On the other hand dictionaries contain the key value pair which can hold Data Types with single value as an element. The elements of the dictionaries are accessed via key-values.

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

* We will get a KeyError error.

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

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

1. 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 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 shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

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

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

* pprint.ppprint()