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

dict1 = {}

dict1 gives output {}

empty dictionary looks as {}

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

Output : 42

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

list stores data in ordered collection.

whereas dictionary stores data in key, value pair

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

it gives key error

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

if a dictionary is stored in spam,

eg: spam = {'cat':'white'}

'cat' in spam gives output True

'cat' in spam.keys() gives output True

There is no difference. 'cat' in spam checks whether there is a 'cat' key in the dictionary.

whereas 'cat' in spam.keys() checks whether there is a value 'cat' for one of the keys in spam.

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'cat' in spam checks whether there is a 'cat' key in the dictionary.

whereas 'cat' in spam.values() checks whether there is a value 'cat' for one of the values 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 module has pprint() function which is used to pretty print the given object including dictionary value.

“prettyprint” refers to the process of displaying source code or other items in a presentable and attractive way.