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

An empty pair of curly braces {} is an empty dictionary

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

dic = {"foo":42}

print(type(dic))

output - <class 'dict'>

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

**Dictionary**

A dictionary refers to a hashed structure of various pairs of keys and values.

We can access the elements present in a dictionary using the key-values.

**List**

A list refers to a collection of various index value pairs

We can access the elements in a key using indices.

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

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 difference, the expression " 'cat' in spam " checks whether 'cat' is a key in spam.

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'cat' exists as a key in spam. 'cat' in spam.values() checks whether 'cat' is a value in spam.

1. 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?

The module is pprint.

The functions are pprint.pprint() and pprint.pformat().