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

Two Curly brackets {}.

example:

a\_dict = {}

type(a\_dict)

output: dict

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

{"foo":42}

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

A list is an ordered sequence of objects, whereas dictionaries are unordered sets. However the main difference is that items in dictionaries are accessed via keys not via their positions.

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

spam = {'bar': 100}

spam['foo']

It throws the key error. Because of there is no such key in the spam variable.

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

spam **=**{'cat':45}

'cat' **in** spam

Output: True

'cat' **in** spam**.**keys()

**There is no difference, both check if 'cat' is key of the dictionary and if it’s a key, returns true.**

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

spam **=**{'cat':45}

'cat' **in** spam

Output: True

'cat' in spam.values()

Output: False

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

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

Within the pprint module there is a function with the same name pprint().