**PYTHON ASSIGNMENT - 5**

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

ANSWER:

{}

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

ANSWER:

{'foo': 42}

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

ANSWER:

Dictionary is an unordered collection of key-value pairs, while a list is an ordered collection of values accessed by index.

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

ANSWER:

It will raise a KeyError.

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

ANSWER:

The expression 'cat' in spam checks if the dictionary spam contains the key 'cat'. The expression 'cat' in spam.keys() checks if the dictionary spam contains the key 'cat' specifically in its keys.

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

ANSWER:

The expression 'cat' in spam checks if the dictionary spam contains the value 'cat' in any of its values. The expression 'cat' in spam.values() checks if the dictionary spam contains the value 'cat' specifically in its values.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

ANSWER:

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

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

ANSWER:

import pprint

my\_dict = {'foo': 42, 'bar': 100, 'spam': [1, 2, 3]}

pprint.pprint(my\_dict)