PYTHON ASSIGNMENT 5

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

   Method 1: Use of { } symbol: We can create an empty dictionary object by giving no elements in curly brackets in the assignment statement. Code: emptyDict = {}

   Method 2: Use of dict() built-in function.Empty dictionary is also created by dict() built-in function without any arguments.

   Code: emptyDict = dict()

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

   example{'foo': '42'}

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

   The main difference is we can access items in a python dictionary and dictionary values via keys and not by their position. A list is an ordered sequence of objects, whereas dictionaries are unordered sets.

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

   We get a KeyError error. Python KeyError is raised when we try to access a key from dict, which doesn't exist. It's one of the built-in exception classes and raised by many modules that work with dict or objects having key-value pairs.

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

   '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.

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7. **What is a shortcut for the following code?**

   if 'color' not in spam:

   spam['color'] = 'black'

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

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

The module is pprint.

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