**Assignment 5**

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

**Answer:**

dictionary\_name={ }

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

**Answer:**

dictionary\_name={’foo’:42}

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

**Answer:**

* Dictionaries: Unordered collections of key-value pairs. Access values by keys, not numerical indices. Key must be unique, collected in curly braces.
* Lists: Ordered sequences of elements, accessed by numerical indices collected in square brackets.

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

**Answer:**

it will raise a key error because the key 'foo' does not exist in the dictionary.

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

**Answer:**

Both are same, as both are looking for key ‘cat’ in the dictionary spam. However ‘cat’ in spam.keys() is redundant syntax. Since the operator ‘in’ is already looking for ‘cat’ in 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:**

* 'cat' in spam := Checks for ‘cat’ in keys of dictionary
* 'cat' in spam.values() := Checks for ‘cat’ value in values in dictionary.

**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:**

* Module: pprint
* Function: pprint.pprint(my\_dict)

Example:

my\_dict = {'name': 'Nandkumar', 'age': 30, 'city': 'Bengaluru', 'hobbies': ['Reading', 'cricket', 'watch movies']}

pprint.pprint(my\_dict)

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Output:

{'age': 30,

'city': 'Bengaluru',

'hobbies': ['Reading', 'cricket', 'watch movies'],

'name': 'Nandkumar'}