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

**Answer –**

my\_dict = {}

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

**Answer –**

my\_dict = {'foo': 42}

The value can be accessed with the key 'foo' using my\_dict['foo'] which will give 42.

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

**Answer –**

The most significant distinction between a dictionary and a list is that a dictionary uses unique keys to store and retrieve values, while a list uses numerical indices to access elements in an ordered manner.

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

**Answer –**

**KeyError**: 'foo'

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

**Answer –**

There is no practical difference between the expressions **'cat' in spam** and **'cat' in spam.keys().** Both expressions check if the key 'cat' is present in the dictionary spam.

**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 value 'cat' is present in any of the dictionary spam's keys,while the expression 'cat' in spam.values() checks if 'cat' is present as a value in any of the dictionary spam's 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 –**

“Pretty print” dictionary values using the pprint module and the pprint() function.

Code-

import pprint

my\_dict = {'key1': 'value1', 'key2': 'value2', 'key3': 'value3'}

pprint.pprint(my\_dict)