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

**Answer:**

We can write empty dictionary as

The\_dict= {}

**==========================================================**

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

**Answer:** the value of the dictionary with the key ‘foo’ and the value 42 is **42**.

**==========================================================**

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

**Answer:**

The most significant distinction between list and dictionary is the structure. The list store the element and the elements can be accessed or operations can be performed using the index of the. element. But in the dictionary the element is stored in the pair of key and values and we can access the values using the key associated with it.

**==========================================================**

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

**Answer:** The spam[‘foo’] will give an error as we don’t have the key value pair 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:**

'cat' in spam checks if **cat** key is a directly present in the dictionary, whereas 'cat' in spam.keys() checks if **cat** key is within the keys of the dictionary.

**==========================================================**

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 if **cat** key is a directly present in the dictionary, whereas 'cat' in spam.keys() checks if **cat** key is within the keys of the dictionary.

**==========================================================**

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

**answer**: we can use the default function to check and assign the value to the key in the Dict.

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

**==========================================================**

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

**Answer**:

we can use the module pprint and the function pprint to pretty print the dictionary values.

import pprint

The\_dict={}

pprint.pprint(The\_dict)

**==========================================================**