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

**Ans :** l = {}

print(type(l))

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

**Ans :** d = {‘foo’: 42}

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

**Ans :** List not have the key value pair like the dictionary it is the most significant distincation in the python.

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

**Ans :** It gives the name error in the python.

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

**Ans :** If a dictionary is stored in spam, then 'cat' in spam checks if the key 'cat' is present in the dictionary spam. It returns True if the key 'cat' is in spam, and False otherwise.

On the other hand, 'cat' in spam.keys() checks if the key 'cat' is present in the list of keys of the dictionary spam. The keys() method returns a list of all the keys in the dictionary. This expression also returns True if the key 'cat' is in the list of keys, and False otherwise.

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

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On the other hand, 'cat' in spam.values() checks if the key 'cat' is present in the list of value of the dictionary spam. The values() method returns a list of all the values in the dictionary. This expression also returns True if the value 'cat' is in the list of values, and False otherwise.

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

**if 'color' not in spam:**

**spam['color'] = 'black'**

**Ans :** spam.setdefault('color', 'black')

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

**Ans :** import pprint