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

ANS: my\_dict={}

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

ANS: my\_dict={‘foo’: 42}

value=my\_dict[‘foo’]

print(value)

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

ANS: Dictionaries store and access elements based on unique keys, while lists elements are accessed by indices.

A list is an ordered collection of items whereas dictionary is an unordered collection of key-value pairs

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

ANS: It will result in KeyError as the key ‘foo’ does not exist in the dictionary spam.

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

ANS: 'cat' in spam: This expression checks if the key 'cat' exists in the dictionary spam. It returns a boolean value, True if the key is present, and False if not present.

'cat' in spam.keys(): This expression first accesses the keys() method of the dictionary spam, then checks if the key 'cat' is present.

It also returns a boolean value, True if the key is present, and False if key is not present.

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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1. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

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

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

ANS: We can use pprint module and its pprint() function. This function displays the dictionary output with each key-value pair on a separate line and with proper indentation.