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

**Answer:** {}

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

**Answer:** {‘foo’ : 42}

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

**Answer:**

list – can store values as list, access by index value

dictionary – key and value pairs. Access the element by key.

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

**Answer:** KeyError: 'foo'

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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 expressions are used to check the ‘cat’ (key) exists in the dictionary.

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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 ‘cat’ key exists in dictionary.

‘cat’ in spam.values() => Check ‘cat’ value exists in dictionary.

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7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

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

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

**Answer:**

import json

stud = [{“name” : “stud1”, “mark” : 50},{“name” : “stud2”, “mark” : 80}]

print(json.dumps(stud,indent=4))

**# or**

from pprint import pprint

pprint(stud,depth=10,width=60)

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