

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

Answer: {}

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

Answer: {'foo' : 42}

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.

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: Both expressions are used to check the 'cat' (key) exists in 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 'cat' key exists in dictionary.

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

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:

```
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)
```
