

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

- `{}`

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

- `{'foo' : 42}`

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

- Items in lists can be indexed because they are ordered. But, values in dictionaries cannot be indexed because, they are unordered key-value pairs.

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

- You will get a **KeyError**.

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

- No difference.

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

- The statement `“'cat' in spam”` checks if that string `cat` is present in the keys of the dictionary `spam` or not. While the statement `“'cat' in spam.values()”` checks whether the string `cat` is there in the values of the dictionary `spam` or not.

7. What is a shortcut for the following code?

```
if 'color' not in spam:
```

```
    spam['color'] = 'black'
```

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

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

- By importing `pprint` module and passing our dictionary in `pprint.pprint()`
- Example: to pretty print our previously used `spam` dictionary. We can use the following commands:
 - `Import pprint`
 - `pprint.pprint(spam)`