

## Assignment\_5

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

**Sol:** `items= {}`

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

**Sol:** `{'foo': 42}`

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

**Sol:** The items stored in a dictionary are unordered, while the items in a list are ordered.

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

**Sol:** You get a `KeyError` error.

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

**Sol:** There is no difference. The `in` operator checks whether a value exists as a key 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()`?

**Sol:** `'cat' in spam` checks whether there is a 'cat' key in the dictionary, while `'cat' in spam.values()` checks whether there is a value 'cat' for one of the keys in `spam`.

7. What is a shortcut for the following code?

```
if 'color' not in spam:
    spam['color'] = 'black'
```

**Sol:** `spam.setdefault('color', 'black')`

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

**Sol:** `pprint.pprint()`