

ASSIGNMENT 5

ANSWER 1:

Empty dictionary is two open and closed curly brackets, `{}`.

ANSWER 2:

the value of a dictionary value with the key `'foo'` and the value `42` is :

```
{'foo': 42}
```

ANSWER 3:

The most significant distinction between a dictionary and a list is that a list is a collection of *ordered* items but a dictionary is a collection of *unordered* items.

ANSWER 4:

We get a `KeyError` error, because the `'foo'` key is not present in the `spam` dictionary.

ANSWER 5:

Both the expressions are the same. Both the cases the `in` operator will check whether `'cat'` exists as a key in the dictionary.

ANSWER 6:

`'cat' in spam` will check whether `'cat'` exists as a key in the dictionary but `'cat' in spam.values()` will check whether `'cat'` exists as a value for any of the keys in the dictionary.

ANSWER 7:

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

ANSWER 8:

```
pprint.pprint()
```

NOTE:

- `pprint` is a Python module. Which has a function with the same name that provides the capability to pretty print Python data types to be more readable.
- The `pprint()` breaks each dictionary element in the array right after the commas while also sorting the dictionary's values by key.
- If you don't want your key-value pairs sorted by key, then you can set the `sort_dicts = False` in the `pprint()` function.