

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

```
a = {}
```

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?

List is a collection of data with notation []

dictionary is a key Value pair data type with notation {}

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

It throw an error

```
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()?

There is no difference. The in operator checks whether a value exists as a key in the dictionary. 'cat' in spam checks whether there is a 'cat' key in the dictionary, while 'cat' in spam.values()

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

Their is a different because 'cat' in spam check for **key**

But 'cat' in spam.values() check for **values**

7. What is a shortcut for the following code?

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

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

ANS:

```
if 'color'!=spam:
```

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

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

Use **pprint()** to Pretty Print a Dictionary in Python