

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

**ANS:-** An empty pair of curly braces {} is an empty dictionary, just like an empty pair of [] is an empty list.

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

**ANS:-** tmp = {'foo': 42}

## 3. What is the main difference between a dictionary and a list?

**ANS:-** The elements in a list are ordered, and the elements in a dictionary aren't. Also, elements in a list must be accessed using numerical indices. Elements in a dictionary are indexed using keys, which can have different data types.

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

**ANS:-** You will 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()?

**ANS:-** There is no difference, the expression " 'cat' in spam " checks whether 'cat' is a key in spam.

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

**ANS:-** 'cat' in spam checks whether 'cat' exists as a key in spam. 'cat' in spam.values() checks whether 'cat' is a value in spam.

## 7. What is a shortcut for the following code?

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

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

## 8. What module and function can be used to “pretty print” dictionary values?

**ANS:-** The module is pprint. The functions are pprint.pprint() and pprint.pformat().