

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

Solution: The empty dictionary can be created using the following syntax:

```
my_new_dict = {}
```

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

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

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

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

Solution: The difference between dictionary and a list are:

Lists	Dictionary						
List is a collection of index values pairs as that of array in c++	Dictionary is a hashed structure of key and value pairs						
The elements are accessed via indices	The elements are accessed via key values						
The indices of a list are integers starting from 0	The keys of dictionary can be of any data type.						
The items in a list are unordered	The items in a dictionary are ordered						

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

Solution: You will get a key error.

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

Solution: 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()`?

Solution: `'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'
```

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

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

Solution: `pprint.pprint()`