1. {}

2. 42

3. A list is an ordered sequence of objects, whereas dictionaries are unordered sets. However, the main difference is that items in dictionaries are accessed via keys and not via their position.

4. KeyError: 'foo'

5..Both will search for 'cat' in keys

6. 'cat' in spam will search for keys named as 'cat' whereas 'cat' in spam.values() will search for 'cat' present in values.

7. spam = {'color' : 'black'}

8. pprint module with pprint() function