1. d={}
2. 42 is the value of a dictionary value with the key ‘foo’ and the value 42.
3. In list every element has a distinct index to access them where as in dictionary elements are stored in key-value pair where key is like a named index and value is the element.
4. When you try to access spam [‘foo’] if spam is {‘bar’:100} error occurs.
5. There is no difference. Both ‘cat’ in spam and spam.keys() checks whether there is a ‘cat’ key in the dictionary.
6. ‘cat’ in spam checks whether there is a ‘cat’ key in the dictionary. While spam.values() checks whether there is a value ‘cat’ for one of the keys in spam.
7. spam.setdefault(‘color’, ‘black’)
8. We can pretty print dictionary values using pprint module and pprint function.