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

**Solution**: The empty dictionary’s code look like 🡺 {}

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’ is 42

Ex: a = { ‘foo’ : 42}

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

**Solution**: a list is an ordered sequence of object, where dictionaries are unordered sets. The main differences is that item in dictionaries are accessed via keys and not their position, were in list the values are accessed by their postion.

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

**Solution**: if you try to access spam[‘foo’] if spam is {‘bar’: 100}🡺 it shows key error ‘foo’.

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

**Solution**: the expression ‘cat’ in spam checks if there is any ‘cat’ key in dictionary.

And ‘cat’ in spam.keys() also checks the key were cat is present are not. Both are check the cat key in spam 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**: the expression ‘cat’ in spam 🡺 it checks ‘cat’ key in the dictionary spam.

‘cat’ in spam.values() 🡺 it checks that ‘cat’ value is assigned to any key in the dictionary spam.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

**Solution**:

spam.setdefault(‘color’ ,’black’)

# Insert key with a value of default if key is not in the dictionary.

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

**Solution**:

pprint.pprint()