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

It simply will look like:

A=[]

OR

[]

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

42

1. **What is the most significant distinction between a dictionary and a list?**
2. Dictionaries cannot have same key while lists can have multiple same values.
3. Dictionaries store variables in key and value pair while lists store the values simply.
4. **What happens if you try to access spam['foo'] if spam is {'bar': 100}?**

We will get key error as the key named ‘foo’ does not exists.

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

**‘cat’ in spam** and **‘cat’ in spam.keys()** will perform the same function of checking spam in the spam dictionary keys.

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

**‘cat’ in spam** will check if ‘cat’ is present in the keys of the spam dictionary or not.

**‘cat’ in spam.values()** will check if the ‘cat’ is present in the values of spam dictionary or not.

1. **What is a shortcut for the following code?**

**if 'color' not in spam:**

**spam['color'] = 'black'**

short code will be:

spam[‘color’]=’black’

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

We use **json** module for pretty print.

The fuction which we use is **json.dumps**(name\_of\_dict, indent= , sorted\_keys=)