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

**A = {}**

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

**42**

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

**List and dictionary are fundamentally different data structures.**

**A list can store a sequence of objects in a certain order such that you can index into the list, or iterate over the list. Moreover, List is a mutable type meaning that lists can be modified after they have been created.**

**Python dictionary is an implementation of a hash table and is a key-value store. It is not ordered and it requires that the keys are hash table. Also, it is fast for lookups by key.**

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

**It will throw error**

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

**'cat' in spam checks if 'cat' key is available in dictionary or not.**

**'cat' in spam. Values () check 'cat' value in any of the key of spam.**

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

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

**{‘color’ : ’black’}**

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

**import pprint**

**dct\_arr = [ {'Name': 'John', 'Age': '23', 'Country': 'USA'}, {'Name': 'Jose', 'Age': '44', 'Country': 'Spain'}, {'Name': 'Anne', 'Age': '29', 'Country': 'UK'},**

**{'Name': 'Lee', 'Age': '35', 'Country': 'Japan'} ]**

**pprint.pprint(dct\_arr)**

**Output:**

**[{'Name': 'John', 'Age': '23', 'Country': 'USA'}, {'Name': 'Jose', 'Age': '44', 'Country': 'Spain'}, {'Name': 'Anne', 'Age': '29', 'Country': 'UK'}, {'Name': 'Lee', 'Age': '35', 'Country': 'Japan'}]**