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

abc\_dict = {}

print(“This is an empty dictionary:”, abc\_dict)

print(type(abc\_dict))

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

d1 = {‘foo’ : 42,}

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

The most significant distinction between a dictionary and a list is lists are ordered and dictionary is unordered.

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

spam = {‘bar’: 100}

spam[‘foo’]

This will give key error.

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

spam = {‘cat’ : 100}

‘cat’ in spam and ‘cat’ in spam.keys() will give the same output as both will check if the dictionary contains any keyword as ‘cat’ and if it does, it will return True.

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

spam = {‘cat’ : 100}

'cat' in spam : It will check if the dictionary contains any keyword as ‘cat’ and if it does it will return True.

Whereas, 'cat' in spam.values() : It will check if any value ‘cat’ is present for any of the keys in spam, and if it does not contain, then it will return False.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

shortcut :

spam = {'cat' :100}

spam.setdefault('color','black')

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

import pprint

d1 = [ {'Name': 'Abc', 'Age': '20', 'Height': '180'},

{'Name': 'Def', 'Age': '30', 'Height': '160'},

{'Name': 'Ghi', 'Age': '32', 'Height': '173'},

{'Name': 'Jkl', 'Age': '22', 'Height': '165'}

]

**Printing with pprint()**

pprint.pprint(d1)

[{'Age': '20', 'Height': '180', 'Name': 'Abc'},

{'Age': '30', 'Height': '160', 'Name': 'Def'},

{'Age': '32', 'Height': '173', 'Name': 'Ghi’},

{'Age': '22', 'Height': '165', 'Name': 'Jkl’}]

**Printing with print()**

print(d1\_arr)

[{'Name': 'Abc', 'Age': '20', 'Height': '180'}, {'Name': 'Def', 'Age': '30', 'Height': '160'}, {'Name': 'Ghi', 'Age': '32', 'Height': '173'}, {'Name': 'Jkl', 'Age': '22', 'Height': '165'}]