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

d=dict()

dict is function so , You can create the any dictionary with the value or withought value.

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

D={'foo': 42}

print(D.values())

Output is

dict\_values([42])

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

List has values stored in index form whereas dictionary values stored in keys form.

List can store duplicate values instead of dictionary cannot store any duplicate value.

List is used in generally prefer for numeric data storing whereas dictionary can be prefer for character or string data storing

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

Keys error foo

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

Expression is the general terms of keys and values it may be any one. Keys and values are called to be expression pair.

Whereas spam. Keys () means, Its keys name is cat and values may be anyone.

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

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

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

spam.update({'color':'black'})

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

Prettyprint can be use where data is not in good format then prettyprint is use to show the data in good format. If I dictionary data in random format so prettyprint will sort the data with respect to values then print.

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

[{'Age': '23', 'Country': 'USA', 'Name': 'John'},

{'Age': '44', 'Country': 'Spain', 'Name': 'Jose'},

{'Age': '29', 'Country': 'UK', 'Name': 'Anne'},

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