**Assignment\_5**

Q1. What does an empty dictionary's code look like?

Ans: dic = {}

dict = {}

type(dict)

output : dict

Q2. What is the value of a dictionary value with the key 'foo' and the value 42?

Ans: {'foo':42}

Q3. What is the most significant distinction between a dictionary and a list?

Ans: Most significant difference:

* List - items in list are Ordered
* Dictionary : items in dictionary are unordered

Q4. What happens if you try to access spam['foo'] if spam is {'bar': 100}?

Ans: This will give us KeyError

spam = {'bar':100}

spam['foo']

output**: KeyError**: 'foo'

Q5. If a dictionary is stored in spam, what is the difference between the expressions 'cat' in spam and 'cat' in spam.keys()?

Ans: There is no difference, both check if 'cat' is key of the dictionary and if its a key, returns True.

spam ={'cat':100}

'cat' in spam

Output: True

'cat' in spam.keys()

Output: True

Q6. If a dictionary is stored in spam, what is the difference between the expressions 'cat' in spam and 'cat' in spam.values()?

Ans: 'cat' in spam checks whether there is a 'cat' key in the dictionary

'cat' in spam.values() checks whether there is a value 'cat' for one of the keys in spam.

spam ={'cat':100}

'cat' in spam

Output: True

spam ={'cat':100}

'cat' in spam.values()

Output: False

### Q7. What is a shortcut for the following code?

Ans: if 'color' not in spam:

spam['color'] = 'black'

This can be achieved by using setdefault() which Inserts key with a value of default if key is not in the dictionary

spam ={'cat':100}

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

spam

output: {'cat': 100, 'color': 'black'}

Q8. How do you 'pretty print' dictionary values using which module and function?

Ans: Pretty printing means to present something in a more readable format or style

import pprint

dct\_arr = [ {'Name': 'Preety', 'Age': '22', 'City': 'Panjab'},

{'Name': 'beauty', 'Age': '25', 'City': 'Gujrat'},

{'Name': 'kat', 'Age': '20', 'City': 'Mumbai'},

{'Name': 'kavin', 'Age': '21', 'City': 'Pune'}

]

pprint.pprint(dct\_arr)

output: [{'Age': '22', 'City': 'Panjab', 'Name': 'Preety'},

{'Age': '25', 'City': 'Gujrat', 'Name': 'beauty'},

{'Age': '20', 'City': 'Mumbai', 'Name': 'kat'},

{'Age': '21', 'City': 'Pune', 'Name': 'kavin'}]

print(dct\_arr)

output :

[{'Name': 'Preety', 'Age': '22', 'City': 'Panjab'}, {'Name': 'beauty', 'Age': '25', 'City': 'Gujrat'}, {'Name': 'kat', 'Age': '20', 'City': 'Mumbai'}, {'Name': 'kavin', 'Age': '21', 'City': 'Pune'}]