## Assignment - 5

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

```
In [1]: empty_dict = {}
```

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

```
In [2]: #42
    my_dict = {"foo":42}
    my_dict.values()

Out[2]: dict_values([42])
```

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

In Lists, INDEX number is used to call a particular data. Whereas, in Dictionaries KEY is used to call a particular data.

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

```
In [3]: spam = {"bar": 100}
    spam['foo']
# 'foo' is not present in the dictionary.

KeyError
Cell In[3], line 2
    1 spam = {"bar": 100}
----> 2 spam['foo']

KeyError: 'foo'

KeyError: 'foo'
```

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

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'

```
In [8]: if 'color' not in spam:spam['color'] = 'black'
spam.setdefault('color','black') #shortcut
Out[8]: 'black'
```

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

```
In [10]: #using module
                import pprint #pretty print
                dct acn =[
                     {'Name': 'John', 'Age': '23', 'Country': 'USA'},
{'Name': 'Jona', 'Age': '25', 'Country': 'IND'},
{'Name': 'Anna', 'Age': '21', 'Country': 'UK'}
                1
                pprint.pprint(dct acn)
               [{'Age': '23', 'Country': 'USA', 'Name': 'John'}, {'Age': '25', 'Country': 'IND', 'Name': 'Jona'}, {'Age': '21', 'Country': 'UK', 'Name': 'Anna'}]
In [1]: #using function
             import json #pretty print
             dct_acn =[
                   {'Name': 'John', 'Age': '23', 'Country': 'USA'}, 
{'Name': 'Jona', 'Age': '25', 'Country': 'IND'}, 
{'Name': 'Anna', 'Age': '21', 'Country': 'UK'}
             print(json.dumps(dct_acn, sort_keys=False, indent=1))
             [
              {
    "Name": "John",
    "22".
                "Age": "23",
                "Country": "USA"
                "Name": "Jona",
                "Age": "25",
                "Country": "IND"
                 "Name": "Anna",
                "Age": "21",
                "Country": "UK"
             1
```