11/04/2019 Dictionaries

```
In [1]: empty_dictionary = {}
         print(type(empty dictionary))
         <class 'dict'>
In [2]: bio_data = {'Name': 'Bob Marley', 'Age':35, 'Height':"5.6 ft", 'Hobby': 'Musi
         print(bio_data)
         {'Name': 'Bob Marley', 'Age': 35, 'Height': '5.6 ft', 'Hobby': 'Music'}
In [3]: credentials = { 'UserA' : 'wkliopnc' , 'UserB': 98760 , 'UserC' :98760 }
In [4]: hobby = bio_data['Hobby']
         print(hobby)
         Music
In [5]: | age = bio_data['Age']
         print(age)
         35
 In [6]: | age = bio_data.get('Age')
         print(age)
         35
In [7]: profession = bio_data.get('Profession','NA')
         print(profession)
         NA
In [8]:
         bio data['Age'] = 36
         print(bio_data)
         {'Name': 'Bob Marley', 'Age': 36, 'Height': '5.6 ft', 'Hobby': 'Music'}
         #add a key, val
In [9]:
         bio_data['Profession'] = 'Singer'
         print(bio_data)
         {'Name': 'Bob Marley', 'Age': 36, 'Height': '5.6 ft', 'Hobby': 'Music', 'Prof
         ession': 'Singer'}
In [10]: | print('Profession' in bio_data)
         True
```

11/04/2019 Dictionaries

```
In [11]: #get list of keys
         print(list(bio data.keys()))
         #get list of values
         print(list(bio data.values()))
         ['Name', 'Age', 'Height', 'Hobby', 'Profession']
         ['Bob Marley', 36, '5.6 ft', 'Music', 'Singer']
In [12]: new_dictionary = dict(Country='Jamaica', Songs=['One Love', 'Misty Morning'])
In [13]: bio data.update(new dictionary)
         print(bio_data)
         {'Name': 'Bob Marley', 'Age': 36, 'Height': '5.6 ft', 'Hobby': 'Music', 'Prof
         ession': 'Singer', 'Country': 'Jamaica', 'Songs': ['One Love', 'Misty Mornin
         g']}
In [14]: | del bio_data['Songs']
         print(bio data)
         {'Name': 'Bob Marley', 'Age': 36, 'Height': '5.6 ft', 'Hobby': 'Music', 'Prof
         ession': 'Singer', 'Country': 'Jamaica'}
         students data = { 1:['Shivam Bansal', 24] , 2:['Udit Bansal',25], 3:['Sonam Gu
In [15]:
         pta', 26], 4:['Saif Ansari',24], 5:['Huzefa Calcuttawala',27]}
         print(students data)
         {1: ['Shivam Bansal', 24], 2: ['Udit Bansal', 25], 3: ['Sonam Gupta', 26], 4:
         ['Saif Ansari', 24], 5: ['Huzefa Calcuttawala', 27]}
In [16]: print(len(students data))
         5
In [17]: #see all the details of students.
         print(list(students data.values()))
         [['Shivam Bansal', 24], ['Udit Bansal', 25], ['Sonam Gupta', 26], ['Saif Ansa
         ri', 24], ['Huzefa Calcuttawala', 27]]
In [18]: students data[6] = ['Manasi Sharma', 22]
         print(students_data)
         {1: ['Shivam Bansal', 24], 2: ['Udit Bansal', 25], 3: ['Sonam Gupta', 26], 4:
         ['Saif Ansari', 24], 5: ['Huzefa Calcuttawala', 27], 6: ['Manasi Sharma', 2
         2]}
```

11/04/2019 Dictionaries

```
In [19]: del students_data[2]
    print(students_data)

    {1: ['Shivam Bansal', 24], 3: ['Sonam Gupta', 26], 4: ['Saif Ansari', 24], 5:
        ['Huzefa Calcuttawala', 27], 6: ['Manasi Sharma', 22]}

In [20]: print(list(students_data.keys()))
    [1, 3, 4, 5, 6]
```