Dictionary

Create Dictionary for following information as "person1":

- Name = Srikanth
- Gender= Male
- Occupation = Data Scientist
- Location = Nizampet, Hyderabad

In [1]:

```
# CODE HERE
```

In [2]:

```
person1 = {'Name':'Srikanth',
           'Gender':'Male',
           'occupation':'Data Scientist',
           'Location':'Nizampet, Hyderabad'}
```

In [3]:

```
person1
```

Out[3]:

```
{'Name': 'Srikanth',
 'Gender': 'Male',
 'occupation': 'Data Scientist',
 'Location': 'Nizampet, Hyderabad'}
```

print keys in person1 as a list

In [4]:

```
# CODE HERE
```

In [5]:

```
print(list(person1.keys()))
```

```
['Name', 'Gender', 'occupation', 'Location']
```

Srikanth age is 27. Assign his age in person1 as key "Age"

In [6]:

```
# CODE HERE
```

In [7]:

```
new_dict = {'Age':27}
person1.update(new_dict)
```

In [8]:

```
person1
```

Out[8]:

```
{'Name': 'Srikanth',
 'Gender': 'Male',
 'occupation': 'Data Scientist',
 'Location': 'Nizampet, Hyderabad',
 'Age': 27}
```

Remove Location in person1

In [9]:

```
# CODE HERE
```

In [10]:

```
person1.pop('Location')
person1
```

Out[10]:

```
{'Name': 'Srikanth',
 'Gender': 'Male',
 'occupation': 'Data Scientist',
 'Age': 27}
```

Create dictionary of person2 with

- Name = Raghu Ram
- Gender = Male
- Age = 25
- Occupation = Data Scienctist

In [11]:

```
# CODE HERE
```

In [12]:

```
person2 = {'Name': 'Raghu Ram',
           'Gender': 'Male',
           'Age':25,
           'Occupation':'Data Scientist'}
```

In [13]:

```
person2
```

Out[13]:

```
{'Name': 'Raghu Ram',
 'Gender': 'Male',
 'Age': 25,
 'Occupation': 'Data Scientist'}
```

Append values on Person1 and Person2

In [14]:

```
print('='*20,'person1','='*20)
print(person1)
print('='*20,'person2','='*20)
print(person2)
```

```
==================== person1 ====================
{'Name': 'Srikanth', 'Gender': 'Male', 'occupation': 'Data Scientist', 'Ag
e': 27}
==================== person2 ====================
{'Name': 'Raghu Ram', 'Gender': 'Male', 'Age': 25, 'Occupation': 'Data Scien
tist'}
```

In [15]:

```
# CODE HERE to append
person1.update(person2)
person1
```

Out[15]:

```
{'Name': 'Raghu Ram',
 'Gender': 'Male',
 'occupation': 'Data Scientist',
 'Age': 25,
 'Occupation': 'Data Scientist'}
```

create a dictionary

remove the elements from that dictionary using different methods

{1: 1, 2: 4, 3: 9, 4: 16, 5: 25,6:36,7:49}

In [16]:

```
# CODE HERE
```

In [17]:

```
dictionary = {1: 1, 2: 4, 3: 9, 4: 16, 5: 25,6:36,7:49}
dictionary
```

Out[17]:

```
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49}
```

In [18]:

```
## Using pop Method
dictionary.pop(2)
dictionary
```

Out[18]:

```
{1: 1, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49}
```

In [19]:

```
## Using del method
del dictionary[4]
del dictionary[6]
dictionary
```

Out[19]:

```
{1: 1, 3: 9, 5: 25, 7: 49}
```

In [20]:

```
dictionary[9]=81
dictionary2 = {0:0}
dictionary2.update(dictionary)
dictionary2
```

Out[20]:

```
{0: 0, 1: 1, 3: 9, 5: 25, 7: 49, 9: 81}
```

{0: 0, 1: 1, 3: 9, 5: 25, 7: 49, 9: 81}

print the values from the above dictionary in descending order

In [21]:

```
# CODE HERE
```

In [22]:

```
L = list(dictionary2.values())
sorted(L,reverse=True)
```

Out[22]:

```
[81, 49, 25, 9, 1, 0]
```

database = {'ram':1234,'raghu':5678,'kanav':1357}

Tasks :-

1. if the username and password matches print hello username

2. if the username and password doesnot match, ask, you want me to add into the database

3. show the updated database list

In [23]:

```
# CODE HERE
```

In [24]:

```
database = {'ram':1234,'raghu':5678,'kanav':1357}
username = input("Enter the username : ")
password = eval(input("Enter the password : "))
if username == 'ram' and password == 1234:
    print('Hello {}!'.format(username))

elif username == 'raghu' and password == 5678:
    print("Hello {}!".format(username))

elif username == 'kanav' and password == 1357:
    print('Hello {}!'.format(username))

else:
    print('You want me to add into the database?')
    new_name = input('Enter the new name you want to add : ')
    new_password = eval(input("Create your password : "))
    new_Database = {new_name : new_password}

    database.update(new_Database)
    print('Updated Database : ',database)
```

```
Enter the username : ram
Enter the password : 1234
Hello ram!
```

merge the below 3 dictionaries

dict1 = { 'a': 1, 'b': 2 } dict2 = { 'b': 3, 'c': 4 } dict3 = { 'c': 5, 'd': 6 }

In [25]:

```
# CODE HERE
```

In [26]:

```
dict1 = { 'a': 1, 'b': 2 }
dict2 = { 'b': 3, 'c': 4 }
dict3 = { 'c': 5, 'd': 6 }
dict1.update(dict2)
dict1.update(dict3)
print(dict1)
```

```
{'a': 1, 'b': 3, 'c': 5, 'd': 6}
```