6/25/2019 24 June 2019

```
In [4]:
              # Adding a new contact
              mycontacts={}
           2
              def addingContact(name,phoneNo):
           3
                  if name not in mycontacts:
           4
           5
                      mycontacts[name]=phoneNo
                      print("new conatact %s is added" %name)
           6
           7
                  else:
                      print("%s is already in mycontacts"% name)
           8
              addingContact("siri","8878933739")
           9
         new conatact siri is added
 In [7]:
              # Searching for a Contact in the existing Contacts List
              def searchMycontact(name):
           2
           3
                  if name in mycontacts:
                      print(name,":",mycontacts[name])
           4
           5
                      print("%s doesn't exist"% name)
           6
              searchMycontact("siri")
         siri: 8878933739
In [18]:
              # Adding New Contacts to existing contacts list
           1
           2
              # Merge another dictonary
              def importNewcontacts(newContacts):
           3
                  #if name not in mycontacts:
           4
           5
                  mycontacts.update(newContacts)
                  print(len(newContacts.keys()), " contacts are added")
           6
           7
                    else:
              #
                        print("Contacts are already in my contacts")
           8
           9
          10
              newContacts = { "pinni":8989898989, "babai":7878787878}
          11
          12
              importNewcontacts(newContacts)
          13
              mycontacts
         2 contacts are added
Out[18]: {'siri': '8878933739', 'pinni': 8989898989, 'babai': 7878787878}
In [ ]:
              myContacts
In [25]:
              # Edit a contact with new number
           1
              def EditContacts(name, phone):
           2
           3
                  if name in mycontacts:
                      mycontacts[name]=phone
           4
           5
                      print("%s contact has modified :" %name, mycontacts[name])
           6
                      return
           7
              EditContacts("siri","1238292823")
         siri contact has modified: 1238292823
```

6/25/2019 24 June 2019

{'pinni': 8989898989, 'babai': 7878787878}

Contacts Application

- Add, Search, List, , Modify Delete contacts

Find and Replace Application?

- Count the total number of occurances of a word
- If word is existing
- Repalce all occurances of a word with another word

Marks Analysis Application

- Generate marks file for n students (btw 1 to 100)
- Input : Marks text file each line contains marks of one student
- Generates a report with the following information
 - Class Average
 - % of students passed
 - % of students failed
 - % of students with distinction
 - Highest Mark Frequency
 - Lowest Mark Frequency

```
In [22]:
              # Function to generate marks data for n students
           2
              from random import randint
           3
           4
              def generateMarks(n, lb, ub):
           5
                  with open('DataFiles/marks.txt','w') as f:
                       for i in range(0, n):
           6
                           r = randint(lb, ub)
           7
           8
                           f.write(str(r) + '\n')
           9
                  return
          10
              generateMarks(100,0,100)
          11
```

```
In [ ]: 1 s=input()
2 DigitFreq()
```

6/25/2019 24 June 2019