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''' creating a dictionary named directory'''
directory = {}
var = 0
def NewContact (Name,Phone_number):
    directory[Name] = []
    directory[Name].append(Phone_number)

def AddNewContact (Name,Phone_number):
    directory[Name].append(Phone_number)
def UpdateExistingContact (Name,New_Number):
    for key in directory:
        if(key == Name):
            directory[Name] = []
            directory[Name].append(New_Number)
            print("Updated Contact Successfully")

def DeleteExistingContact (Name):
    var = 0
    for key in directory:
        if(key == Name):
            var = 1
            del directory[Name]
            break
    if var == 0 :
        print('Contact not Found');
    else :
        print('Contact Deleted Successfully');

def SearchExistingContact (Name):
    var = 0
    for key in directory:
        if(key == Name):
            print("Name of Person: " + key)
            print("Available Phone Numbers: ")
            print(directory[key])
            var = 1
    if var != 1 :
        print('Contact not Found')

def switcher(no):
    if(no==1):
        Name=input("Enter Name : ")
        Pno=int(input("Enter Phone Number : "))
        NewContact(Name,Pno)
        print("Contact Added Succesfully")
    elif(no==2):
        Name=input("Enter Name : ")
        Pno=int(input("Enter Phone Number : "))
        AddNewContact(Name,Pno)

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        print("Another Phone Number Added Successfully")
    elif(no==3):
        Name=input("Enter Name : ")
        Pno=int(input("Enter Phone Number : "))
        UpdateExistingContact(Name,Pno)

    elif(no==4):
        Name=input("Enter Name : ")
        DeleteExistingContact(Name)
    elif(no==5):
        Name=input("Enter Name : ")
        SearchExistingContact(Name)
    elif(no==6):
        print(directory)
    else:
        print("Invalid Input...!!!")

print("\t Welcome to Directory. \n")
print("Select one of the below options. (Select '0' to exit.)")
print("1. Create Contact ")
print("2. Add new Contact")
print("3. Update Contact")
print("4. Delete Contact")
print("5. Search for a given name and show their contact details")
print("6. Show all contacts.\n")

while(True):

    num=int (input('Enter a option: '))
    if num == 0:
        exit
    else:
        switcher(num)
    print("\n")

```

Execution:

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

Select one of the below options. (Select '0' to exit.)

1. Create Contact
2. Add new Contact
3. Update Contact
4. Delete Contact
5. Search for a given name and show their contact details
6. Show all contacts.

Enter a option: 1

Enter Name : Manoj

Enter Phone Number : 8332940593

Contact Added Successfully

Enter a option: 2

Enter Name : Manoj

Enter Phone Number : 1234567890

Another Phone Number Added Successfully

Enter a option: 1

Enter Name : Teja

Enter Phone Number : 9876543210

Contact Added Successfully

Enter a option: 5

Enter Name : Manoj

Name of Person: Manoj

Available Phone Numbers:

[8332940593, 1234567890]

Enter a option: 6

{'Manoj': [8332940593, 1234567890], 'Teja': [9876543210]}

Enter a option: 3

Enter Name : Manoj

Enter a option: 3

Enter Name : Manoj

Enter Phone Number : 142536

Updated Contact Successfully

Enter a option: 4

Enter Name : 6

Contact not Found

Enter a option: 6

{'Manoj': [142536], 'Teja': [9876543210]}

Enter a option: 4

Enter Name : Manoj

Contact Deleted Successfully

Enter a option: 6

{'Teja': [9876543210]}

Enter a option:

Enter a option: 3
Enter Name : Manoj
Enter Phone Number : 142536
Updated Contact Successfully

Enter a option: 4
Enter Name : 6
Contact not Found

Enter a option: 6
{'Manoj': [142536], 'Teja': [9876543210]}

Enter a option: 4
Enter Name : Manoj
Contact Deleted Successfully

Enter a option: 6
{'Teja': [9876543210]}

Enter a option: