

# DWAYNE FRASER

# PROBLEM 3

contact\_list = [] # CONTACT LIST DECLARATION

# Part A

**def** contact\_list\_add(full\_name, nick\_name, phone\_number):

**for** i **in** range(len(contact\_list)): # LOOP

**if**(contact\_list[i][0] == full\_name): # IF CONTACT NAME IS IN LIST THEN...

contact\_list[i] = (full\_name, nick\_name, phone\_number) # CHANGES EXISTING CONTACT TO NEW ENTRY

**return** False # RETURNS BOOLEAN

contact\_list.append((full\_name, nick\_name, phone\_number)) # ADD CONTACT

**return** True # RETURNS BOOLEAN

#Part B

**def** contact\_list\_remove(full\_name, nick\_name, phone\_number):

**for** i **in** range(len(contact\_list)): # LOOP

**if**(contact\_list[i][0] == full\_name): # IF CONTACT NAME IS IN LIST THEN...

x = i

contact\_list.pop(x)

**return** True # RETURNS BOOLEAN

**return** False # RETURNS BOOLEAN

#Part C

**def** contact\_list\_find(full\_name):

**for** i **in** contact\_list: # LOOP

**if** full\_name **in** i: # IF CONTACT NAME IS IN LIST THEN...

**return** i # RETURNS VALUE

**else**:

**return** None

#Part D

**def** contact\_list\_save(file\_name):

f = **open**(file\_name, "w") # OPENS FILE AS W

**for** i **in** contact\_list: # LOOP

f.write("{} {}, {}".format(i[0], i[1], i[2])) # WRITES TO FILE

#Part E

**def** contact\_list\_read(file\_name):

f = **open**(file\_name, "r") # OPENS FILE AS R

line = f.readline()

contacts\_list = []

**while**(line): # LOOP

contacts\_list.append(tuple(line.split(" "))) #GETS INFO

line = f.readline()

```
return contacts_list
```

#Part F

```
def main():
```

```
    contact_list_add("Beyonce Knowels", "Bey", "561-1234321")
```

```
    contact_list_add("Cardi B", "Belcalis", "305-4399521")
```

```
    contact_list_add("Earl Simmons", "DMX", "305-1010101")
```

```
    print("LIST AFTER ADD: ", contact_list)
```

```
    contact_list_remove("Cardi B", "Belcalis", "305-4399521")
```

```
    print("LIST AFTER REMOVAL: ", contact_list)
```

```
    print("FIND CONTACT", contact_list_find(full_name = "Beyonce Knowels"))
```

```
    contact_list_save("Contact_list_file.csv")
```

```
    print("LIST AFTER SAVE: ", contact_list_read("contact_list_file.csv"))
```

```
main()
```

```
In [1]: runfile('C:/Program Files (x86)/Work/Python/Python Dwayne Solutions/HW 2/Homework 2/p3_Fraser_Dwayne.py', wdir='C:/Program Files (x86)/Work/Python/Python Dwayne Solutions/HW 2/Homework 2')
LIST AFTER ADD: [('Beyonce Knowels', 'Bey', '561-1234321'), ('Cardi B', 'Belcalis', '305-4399521'), ('Earl Simmons', 'DMX', '305-1010101')]
LIST AFTER REMOVAL: [('Beyonce Knowels', 'Bey', '561-1234321'), ('Earl Simmons', 'DMX', '305-1010101')]
FIND CONTACT ('Beyonce Knowels', 'Bey', '561-1234321')
LIST AFTER SAVE: [('Beyonce Knowels', 'Bey', '561-1234321Earl Simmons', 'DMX', '305-1010101')]

In [2]:
```