```
import pickle
import contact
LOOK UP = 1
ADD = 2
CHANGE = 3
DELETE = 4
QUIT = 5
FILENAME = 'contacts.txt'
def main():
    mycontacts = load contacts()
    choice = 0
    while choice != QUIT:
        choice = get menu choice()
        if choice == LOOK UP:
            look up (mycontacts)
        elif choice == ADD:
            add (mycontacts)
        elif choice == CHANGE:
            change (mycontacts)
        elif choice == DELETE:
            delete (mycontacts)
    save contacts(mycontacts)
def load contacts():
    try:
        input_file = open(FILENAME, 'rb')
        contact dct = pickle.load(input_file)
        input file.close()
    except IOError:
        contact dct = {}
    return contact dct
def get menu choice():
    print()
    print('MENU')
    print('----')
    print('1. Look up contact')
    print('2. Add a new contact')
    print('3. Change an existing contact')
    print('4. Delete a contact')
    print('5. Quit the program')
    print()
    choice = int(input('Enter your choice: '))
    while choice < LOOK UP or choice > QUIT:
        choice = int(input('Enter a valid choice: '))
    return choice
def look up(mycontacts):
    name = input('Enter a name to find: ')
    print(mycontacts.get(name,'That name is not found.'))
def add(mycontacts):
    name = input('Name: ')
    phone = input('Phone: ')
    email = input('Email: ')
    entry = contact.Contact(name, phone, email)
    if name not in mycontacts:
        mycontacts[name] = entry
```

```
print('The entry has been added')
    else:
        print('The entry already exists.')
def change(mycontacts):
    name = input('Enter a name: ')
    if name in mycontacts:
        phone = input('Enter the new phone number: ')
        email = input('Enter the new eail address: ')
        entry = contact.Contact(name, phone, email)
        mycontacts[name] = entry
        print('Contact information updated for: ', name)
    else:
        print('The name %s is not found in the contact list.' %name)
def delete(mycontacts):
    name = input('Enter a name: ')
    if name in mycontacts:
        del mycontacts[name]
        print('%s has been deleted from the contract list.' %name)
    else:
        print("The name %S is not found in the contact list." %name)
def save contacts(mycontacts):
    output file = open(FILENAME, 'wb')
    pickle.dump(mycontacts, output file)
    output file.close()
main()
```