**Class diagram of AddressBook Assignment:**

**Person**

+

FirstName:string

+

LastName:string

Address:String

+

City:String

+

Zip:Integer

+PhoneNumber:Integer

+

**Admin**

AddNewPerson

()

+

()

AddPersonInfo

+

+

()

DeletePesonInfo

**FileOperation**

New

+

()

Open

()

+

+

Save()

()

SaveAs

+

Delete

()

+

()

Close

+

()

Quit

+

**AddressBook**

()

CreateAddressBook

+

()

OpenAddressBook

+

()

DeleteAddressBook

+

**SortData**

()

UsingZip

+

+

()

UsingLastName

dependency

**Description:**

There are 5 classes, **Admin class** can only add new person, add person info, and delete person info. Person class and FileOperation class performed by admin class. Admin class follows one to many (Association) relation for Person and FileOperation class.

In **FileOperation class** we can create a new address book, to open a disk file containing an existing address book to close an address book, and to save an address book to a disk file, using standard New, Open, Close, Save, Save As, delete, close, quit File menu options.

In **Person class** we can add details of person that is first name, last name, address, and city, state, zip and phone number.

In **AddressBook class** we can create new address book, open address book and delete address book. AddressBook class having person’s class data. If there is address book then only we can perform operations of FileOperation class.

In **Sort data class** we can sort data by using zip and using last name. This class having dependency on AddressBook class.