You will implement a phone directory program that reads names of friends and their phone numbers from a file called *names.txt* (given) and stores them in a HashMap<key, value > data structure. Key and value are of String type

Your program needs to have the following capabilities:

- o display all names in the phone directory;
- o add a friend (given name, phone number)
- o remove a friend (given name)
- o change phone number (given name, new phone number)
- search number (given name)

You are given a driver program called *DirectoryMain.java* that uses the above features provided by a Directory class.

The driver program tests all the above features. You do not need to write a menu.

You need to:

Write a class called *Directory.java* that instantiates a *HashMap* called *directory* and that implements the following methods:

```
public Directory(String names) throws FileNotFoundException
  //constructor: reads names and numbers from the file into the
    called directory
public String getPhoneNumber(String name) //number look up given name
public void delete(String name) //remove a directory entry
public void add(String name, String number // add friend given number
public void change(String name, String number) // change number
```

The names file separates names from phone numbers with a ':'. e.g.

```
Armando Lopez : 916-333-4444
```

Split the input string into two tokens corresponding to the key and value by splitting the input string using *String tokens*[]= inline.split(":"); tokens[0] will is name and tokens[1] is phone number

Test: run DirectoryMain and verify that your output looks like this:

```
Meili Xu
                      202-345-8765
      Abigail Smith
                     886-345-7625
      Randy Burgher
                     198-345-8765
         John Adams
                     916-334-7767
      Rita Hayworth 887-345-8765
     Geeta Srinivas
                     987-345-9876
        Jesus Lopez
                     331-334-9876
Adding
        Dwight Cheeseboro 916-423-4324
Changing Dwight Cheeseboro 924-335-6757
```

```
Dwight Cheeseboro 924-335-6757

Meili Xu 202-345-8765

Abigail Smith 886-345-7625

Randy Burgher 198-345-8765

John Adams 916-334-7767

Rita Hayworth 887-345-8765

Geeta Srinivas 987-345-9876

Jesus Lopez 331-334-9876

Rita Hayworth Removed

Rita Hayworth's number: Not Found
```

```
Dwight Cheeseboro
                       924-335-6757
           Meili Xu
                       202-345-8765
      Abigail Smith
                       886-345-7625
      Randy Burgher
                      198-345-8765
         John Adams
                       916-334-7767
     Geeta Srinivas
                       987-345-9876
        Jesus Lopez
                       331-334-9876
John Adam's number:
                       916-334-7767
Amal Rona's number:
                       Not Found
```