

## Maps and File Input/Output

General Description: The program accepts names and telephone numbers from the user. It has the modify, deletion and display capabilities. It can also save the data in a text file.

Sample Run.

1. At the start of the program the following is displayed:

```
A to Add, E to Edit, D to Delete, P to Print, Ex to exit
```

2. If there is already data, the existing phone book, records will be initially displayed.

```
Phone Book
*****
      Name      Phone
      Aman      343243
      Gruela     33243
      Jessie Rod 34343
      Johnny     34343
      Zanip      4345454
A to Add, E to Edit, D to Delete, P to Print, Ex to exit
```

3. If the user, enters A, the program will allow the entry of new records.

```
A to Add, E to Edit, D to Delete, P to Print, Ex to exit  A
Enter the name of the person Janno Gibson
Enter the telephone number 4345434

Records updated.....
Phone Book
*****
      Name      Phone
      Aman      343243
      Gruela     33243
      Janno Gibson 4345434
      Jessie Rod 34343
      Johnny     34343
      Zanip      4345454
A to Add, E to Edit, D to Delete, P to Print, Ex to exit
```

4. There should be validation to ensure no double entry is allowed.
5. If the user, enters E, modification of telephone numbers will be processed.

```

Phone Book
*****
      Name      Phone
      Aman      343243
      Gruela     33243
      Janno Gibson 4345434
      Jessie Rod  34343
      Johnny     34343
      Zanip      4345454

A to Add, E to Edit, D to Delete, P to Print, Ex to exit  E
Enter the name of the person Gruela
Enter the telephone number 5555555

Records updated.....
Phone Book
*****
      Name      Phone
      Aman      343243
      Gruela     5555555
      Janno Gibson 4345434
      Jessie Rod  34343
      Johnny     34343
      Zanip      4345454

A to Add, E to Edit, D to Delete, P to Print, Ex to exit

```

6. If the user, chooses D, deletion of data will be processed.

```

A to Add, E to Edit, D to Delete, P to Print, Ex to exit  P

There are 6record/s in your phone book
Phone Book
*****
      Name      Phone
      Aman      343243
      Gruela     5555555
      Janno Gibson 4345434
      Jessie Rod  34343
      Johnny     34343
      Zanip      4345454

A to Add, E to Edit, D to Delete, P to Print, Ex to exit  D
Enter the name of the person Gruela

Records updated.....
Phone Book
*****
      Name      Phone
      Aman      343243
      Janno Gibson 4345434
      Jessie Rod  34343
      Johnny     34343
      Zanip      4345454

A to Add, E to Edit, D to Delete, P to Print, Ex to exit

```

7. Validation should be provided when the user is trying to modify or delete a none-existing data.

- When the user enters P, it will display the records along with a record count.

```
There are 5record/s in your phone book
Phone Book
*****
      Name      Phone
      Aman      343243
Janno Gibson    4345434
      Jessica    34343
      Johnny     34343
      Zani       4345454
A to Add, E to Edit, D to Delete, P to Print, Ex to exit
```

- When the user enters Ex, the program will end.

### General Specifications

- The program should use Maps.
- The program should be able to save the data in a text file.
- At the start of the program, the program should display the data inside the text file.
- Proper documentation should be followed.
- Program should be running and free from error.