1-Contact Book Menu

```
C:\Users\Dell\Documents\Dat \times + \vert \vert
```

2-Adding Contact

```
© C:\Users\Dell\Documents\Dat × +
Fn:
                 yasmine
Ln:
                 ibrahim
Class(Friend ,work ,family ,other): friend
Set as Fav: (press 1 (fav)or 0 (Not)):1
How many numbers:?!1
                1:+201212026457
Phone #
How many mails:?!1
Email #
                 1:yas12@gmail.com
Street Number: 1
Street Name:
                 уу
Town:
                 уу
State:
                 уу
 Contact added successfully ^---^.
```

3- handling phone number && email if invalid

```
C:\Users\Dell\Documents\Dat X
Fn:
                  ww
Ln:
                  ww
Class(Friend ,work ,family ,other): work
Set as Fav: (press 1 (fav)or 0 (Not)):0
How many numbers:?!1
Phone #
                 1:3456723
Phone #
                 1:+20123456
How many mails:?!1
Email #
                 1:sdwwq
Email #
                 1:qww2@gmail.com
Street Number:
```

4-Display all contacts

| ı | yasmine | ibrahim | friend | Yes | 1, уу, уу, уу | +201212026457 | yas12@gmail.com |
|---|---------|-------------|--------|-----|---------------|---------------|-----------------|
| 2 | yasser | belal | work | No | 2, bb, bb, bb | +201123245256 | bel2@gmail.com |
| 3 | yehia | mohamed | family | Yes | 3, ii, ii, ii | +201112135678 | yeh2@gmail.com |
| 4 | mohamed | abd-el-aziz | other | No | 4, zz, zz, zz | +2010234567 | az34@gmail.com |
| 5 | yara | hesham | friend | Yes | 5, rr, rr, rr | +2010234598 | ya1@gmail.com |
| 6 | youssef | weal | work | No | 6, ww, ww, ww | +20121234567 | we34@gmail.com |
| 7 | yasser | ibrahim | family | No | 7, mm, mm, mm | +201234668 | ibr5@gmail.com |

5-Sort contacts

| mohamed | abd-el-aziz | other | No | 4, zz, zz, zz | +2010234567 | az34@gmail.com |
|---------|-------------|--------|-----|---------------|---------------|-----------------|
| yara | hesham | friend | Yes | 5, rr, rr, rr | +2010234598 | ya1@gmail.com |
| yasmine | ibrahim | friend | Yes | 1, yy, yy, yy | +201212026457 | yas12@gmail.com |
| yasser | belal | work | No | 2, bb, bb, bb | +201123245256 | bel2@gmail.com |
| yasser | ibrahim | family | No | 7, mm, mm, mm | +201234668 | ibr5@gmail.com |
| yehia | mohamed | family | Yes | 3, ii, ii, ii | +201112135678 | yeh2@gmail.com |
| youssef | weal | work | No | 6, ww, ww, ww | +20121234567 | we34@gmail.com |

6-Reverse Contacts

| youssef | weal | work | No | 6, ww, ww, ww | +20121234567 | we34@gmail.com |
|------------|-------------|--------|-----|---------------|---------------|----------------|
| yehia | mohamed | family | Yes | 3, ii, ii, ii | +201112135678 | yeh2@gmail.com |
| yasser | ibrahim | family | No | 7, mm, mm, mm | +201234668 | ibr5@gmail.com |
| yasser | belal | work | No | 2, bb, bb, bb | +201123245256 | bel2@gmail.com |
| yasmine | ibrahim | friend | Yes | 1, уу, уу, уу | +201212026457 | yas12@gmail.co |
| yara | hesham | friend | | 5, rr, rr, rr | +2010234598 | yal@gmail.com |
| mohamed | abd-el-aziz | other | No | 4, zz, zz, zz | +2010234567 | az34@gmail.com |

7-Search by last name

| yasser | belal | work | No | 2, bb, bb, bb | +201123245256 | bel2@gmail.com |
|----------------|-----------------|----------|--------|-------------------|-------------------|--------------------|
| | | | | | | |
| nter last name | to search: ibra | him | | | | |

8-Search by Classification

| Enter class1+1ca1 | tion to search | (e.g., Friend, Wo | ork, Family): | vork | | | | | |
|-------------------|----------------|-------------------|---------------|------|-----|-----|----|---------------|----------------|
| 1 youssef | weal | work | No | 6, 1 | ww, | ww, | ww | +20121234567 | we34@gmail.com |
| 4 yasser | belal | work | No | 2, 1 | bb, | bb, | bb | +201123245256 | bel2@gmail.com |

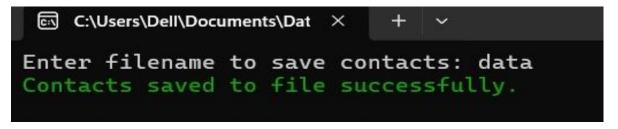
9-Display Favorite Contacts

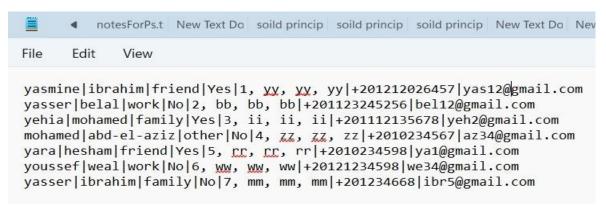
| FName | LName | Classification | Fav | | Add | lress | Phone Num | Email |
|---------|---------|----------------|-----|------|-------|-------|---------------|-----------------|
| yehia | mohamed | family | Yes | 3, i | i, ii | , ii | +201112135678 | yeh2@gmail.com |
| yasmine | ibrahim | friend | Yes | 1,) | у, уу | ', уу | +201212026457 | yas12@gmail.com |

10-Update Contact

```
Enter the first name of the contact to edit: yara
Enter the last name of the contact to edit: hesham
Modify Contact Details:
Fn:
               var
n:
               hes
Class(Friend ,work ,family ,other): other
Set as Fav: (press 1 (fav)or 0 (Not)):0
How many numbers:?!1
Phone #
               1:+2012345678
low many mails:?!1
Email #
               1:yy3@gmail.com
Street Number: 8
Street Name:
Town:
               VV
State:
 ontact edited successfully
```

11-Save to file

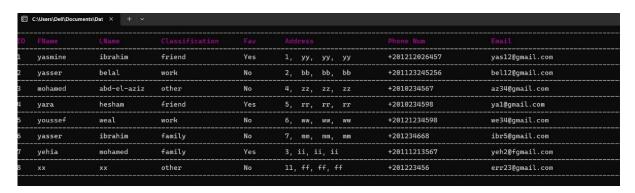




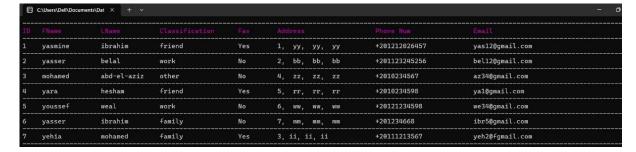
12-load from file

| oaded Contac oaded Contac oaded Contac oaded Contac oaded Contac oaded Contac oaded Contac | e to load contacts: t: yasmine ibrahin t: yasser belal t: yehia mohamed t: mohamed abd-el-az t: yara hesham t: youssef weal t: yaser ibrahim ed from file success | iz | | | | | | | |
|--|---|----------------|-----|-----|------|-----|----|---------------|-----------------|
| FName | LName | Classification | Fav | Add | ress | | | Phone Num | Email |
| yasmine | ibrahim | friend | Yes | 1, | уу, | уу, | уу | +201212026457 | yas12@gmail.com |
| yasser | belal | work | No | 2, | ьь, | bb, | bb | +201123245256 | bel12@gmail.com |
| yehia | mohamed | family | Yes | 3, | ii, | ii, | ii | +201112135678 | yeh2@gmail.com |
| mohamed | abd-el-aziz | other | No | 4, | zz, | zz, | zz | +2010234567 | az34@gmail.com |
| yara | hesham | friend | Yes | 5, | rr, | rr, | | +2010234598 | yal@gmail.com |
| youssef | weal | work | No | 6, | ww, | ww, | | +20121234598 | we34@gmail.com |
| vasser | ibrahim | family | No | 7 | mm | mm. | mm | +201234668 | ibr50gmail.com |

13-Delet Contact



Enter the index of the contact to delete: 7
Contact deleted successfully ^---^.



14-Exiting

