

Department of Electrical & Computer Engineering

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ENCS313 Linux Laboratory

**Shell Scripting Project – Contact Management System** 

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**Section**: 2

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### The idea:

The program let the user to add contacts to txt file he chooses, in addition to edit, search, list and delete any contact he want, by choosing an option from a menu which has all these options.

As for add a new contact, each contact has a (first name, last name, phone number and email), the user is forced to enter the first name, phone number and email, otherwise the remaining are optional to be added.

As for list, the program will let the user list the contacts based on the first name or on the last name.

As for the Search, the user can search using any field or part of field or combination of field.

As for edit, the program ask user to enter the field he want to edit, then ask after selecting it, it will ask to enter the contact field he want to edit and then ask to enter the new to replace it, the program will show all the contacts that have that name or information of the field, this displaying is made especially for the dependency contact, that is we let the user edit a specific field if there is many have the same name, because of that the program ask the user to enter another specific field for that contact from the displayed contacts to select the contact must be edited.

Finally, for delete the contact, the program asks the user the string of any field then it will be deleted with its information in the txt file

# The screen shots of each task with testing examples:

- 1- In the first time, the file.txt is not exist
- 2- In the second time, the Contact.txt is exist  $\rightarrow$  open the menu

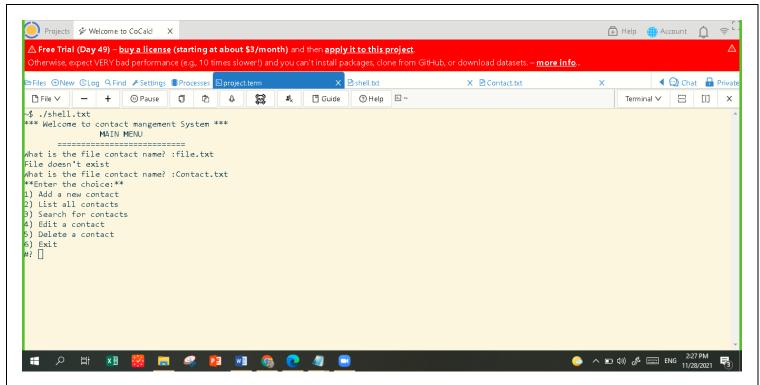


Figure 1

## The file Contact.txt content in the begining:

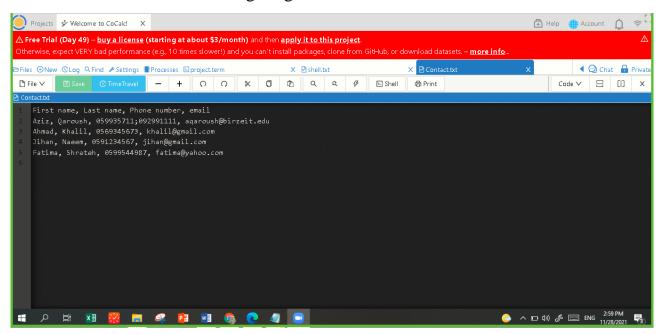


Figure 2

1- Adding a new contact with a correct information

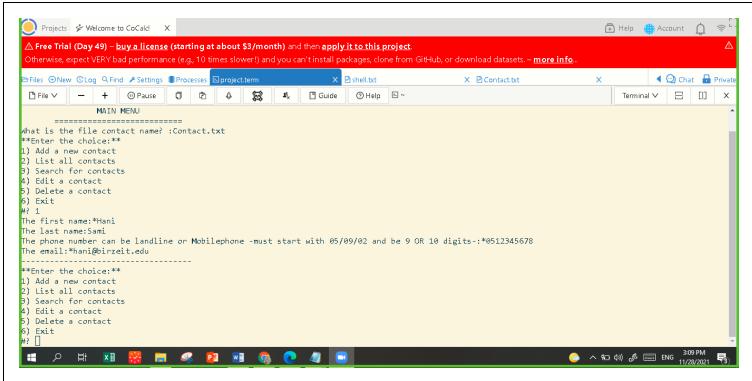


Figure 3

2- The Contact.txt content after adding new contact:

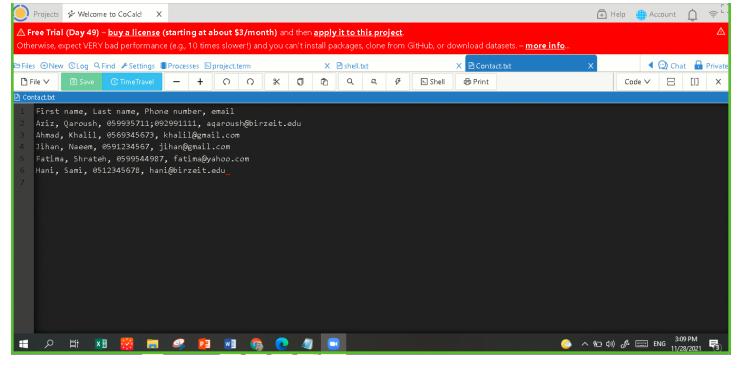


Figure 4

- 3- In the beginning, we didn't enter a first name, so the program asked to enter again.
- 4- We didn't enter the last name so the program continue that is last name is an optional

- 5- We didn't enter a number in the first, so program asked again for a one, then we entered many numbers in many cases to check:
  - a- Number more than 10 digits → it's not valid
  - b- Number less than 9 digits → it's not valid
  - c- Number doesn't start with  $05/09/02 \rightarrow$  it's not valid
  - d- Number start with 09 and consist of 10 digits → it's VALID
- 6- We didn't enter an email so the program asked AGAIN
- 7- We entered an email without @  $\rightarrow$  it's not valid
- 8- We entered an email with @  $\rightarrow$  it's VALID

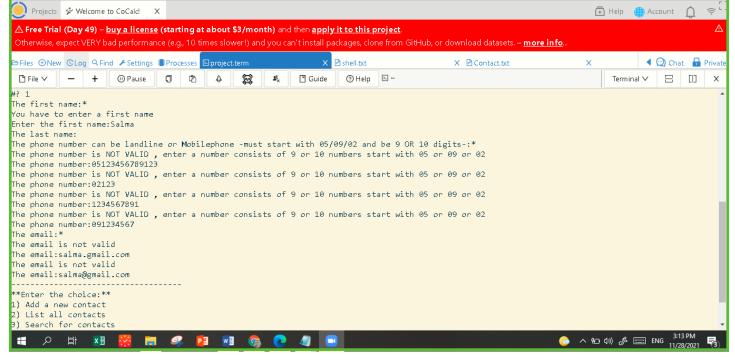


Figure 5

The Contact.txt content after adding a second user, note that Last name is an optional so it's empty:

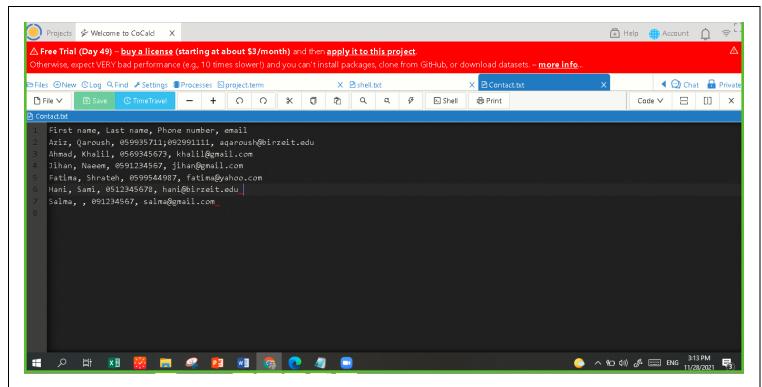


Figure 6

2-For the list contacts , when we entered F , the program shows all the first names , and when entered L , it shows all the Last names in the Contact.txt

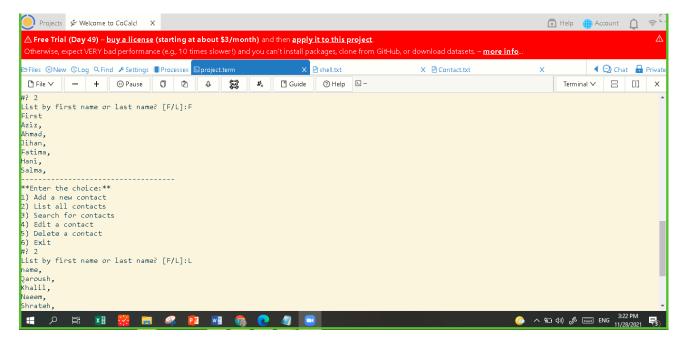


Figure 7

3-If the choice was 3, then the program will search:

The content of the file before making search:

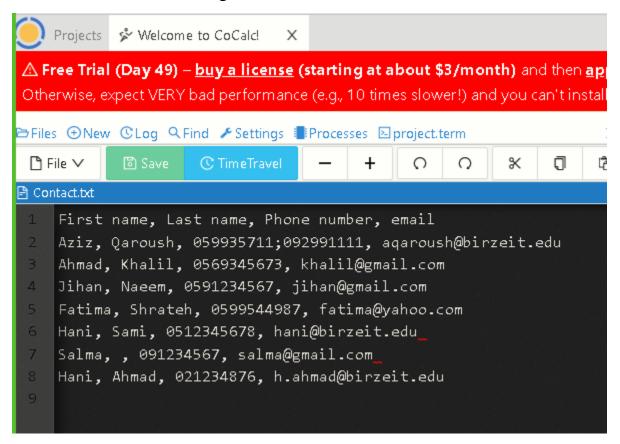


Figure 8

We entered Hani that it is the first name  $\rightarrow$  the program shows all contacts have the name Hani:

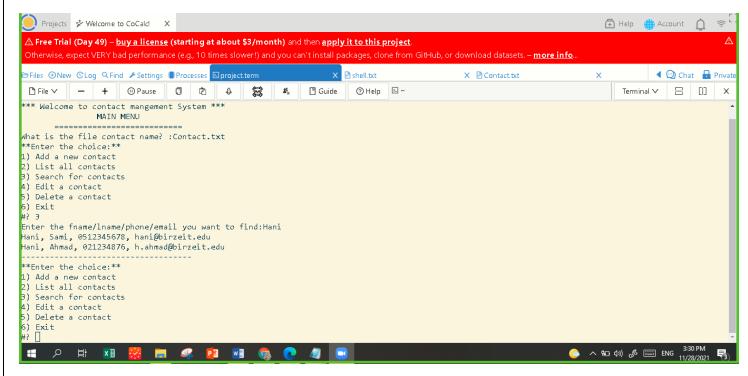


Figure 9

We entered gmail that we want to show all the gmail emails  $\rightarrow$  the program shows all contacts have the email gmail:

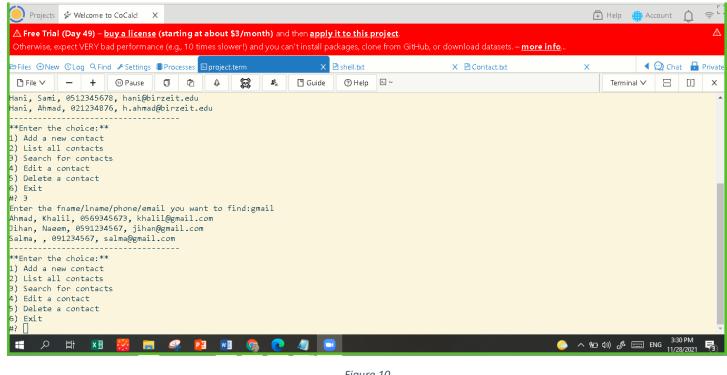


Figure 10

4-if the choice was 4, the program will edit a field of contact:

## File content before:

```
First name, Last name, Phone number, email
Fatima, Qaroush, 059935711;092991111, aqaroush@birzeit.edu
Fatima, Khalil, 0569345673, khalil@gmail.com
Shahd, Ali, 0591234567, jihan@gmail.com
Fatima, Ali, 0599544987, fatima@yahoo.com
MHMD, Sami, 0598765432, hani@birzeit.edu
sami, Yousef, 0598765432, salma@gmail.com
Jihan, Ahmad, 021234876, A@gmail.com
Dona, Mostafa, 023456789, A@gmail.com
```

Figure 11

# 1. Try Editing the first name

We entered F to edit a first name called Fatima to Malak, so the program show all the contacts have the name Fatima and ask user to enter the last name of the specific Fatima to edit it:

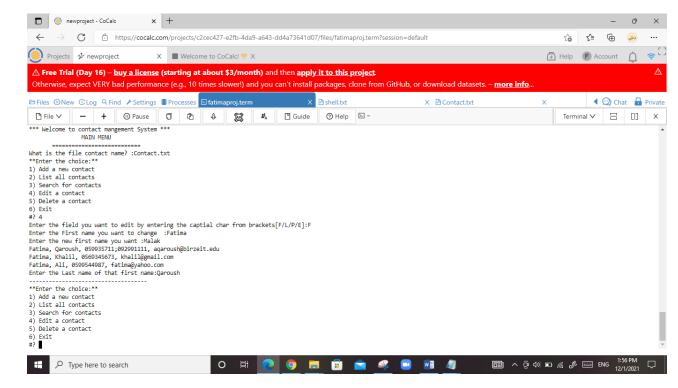


Figure 12

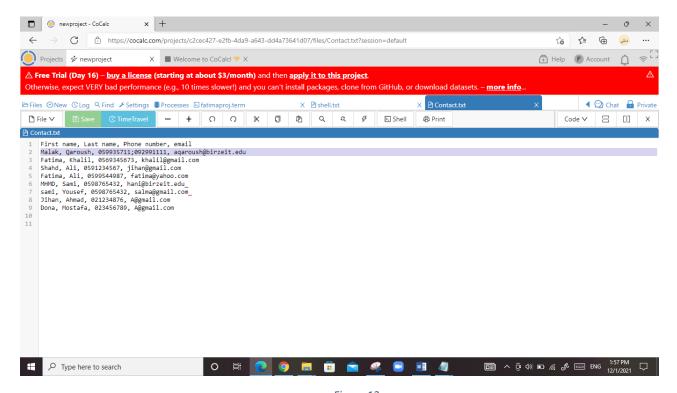


Figure 13

#### 2.Edit last name

We entered L to edit a last name called Ali to Hussam, so the program show all the contacts have the name Ali and ask user to enter the first name of the specific Ali to edit it:

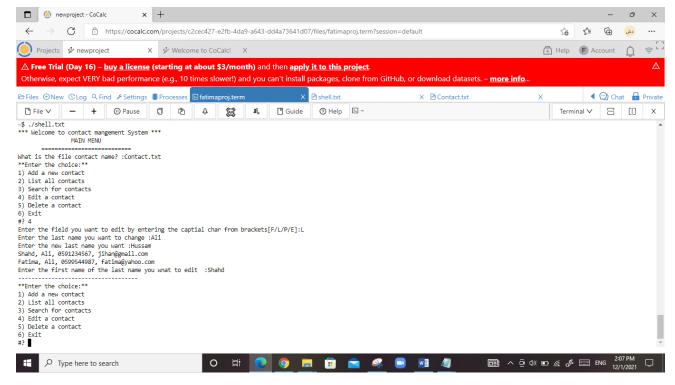


Figure 14

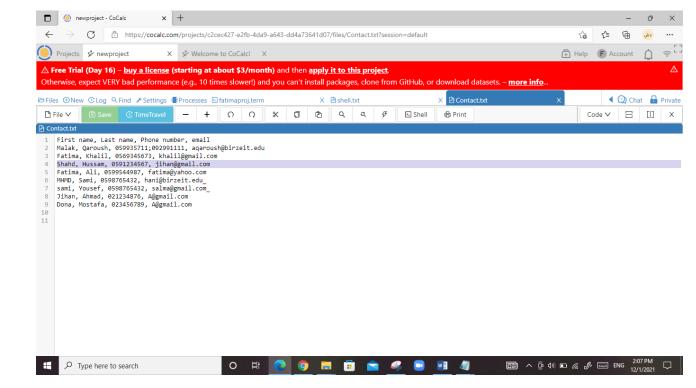


Figure 15

#### 3.Edit Phone number

We entered P to edit a phone number as in the figure below, so the program show all the contacts have that number and ask user to enter the last name of the specific number to edit it:

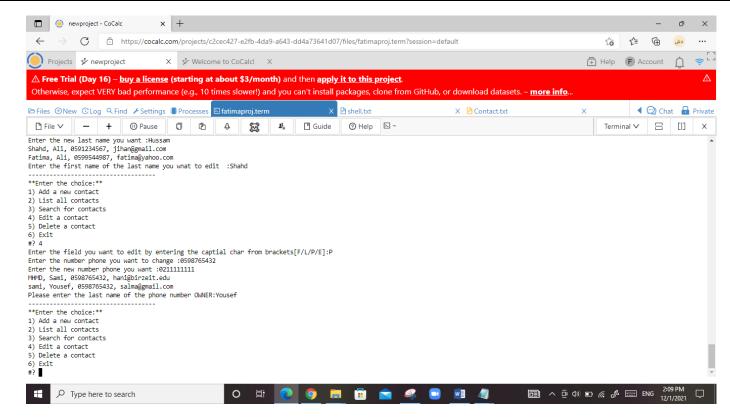


Figure 16

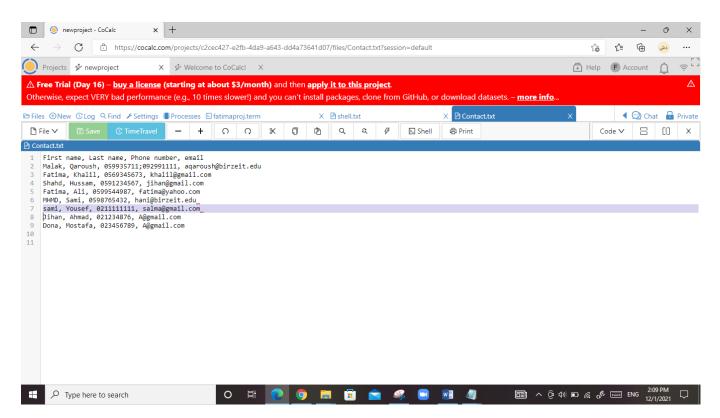


Figure 17

#### 4.Edit the email:

We entered E to edit the required email as in the fig below, so the program show all the contacts have that email and ask user to enter the phone number of the specific email to edit it:

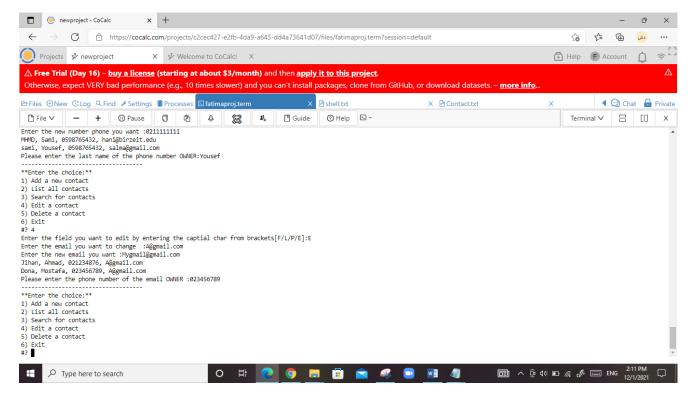


Figure 18

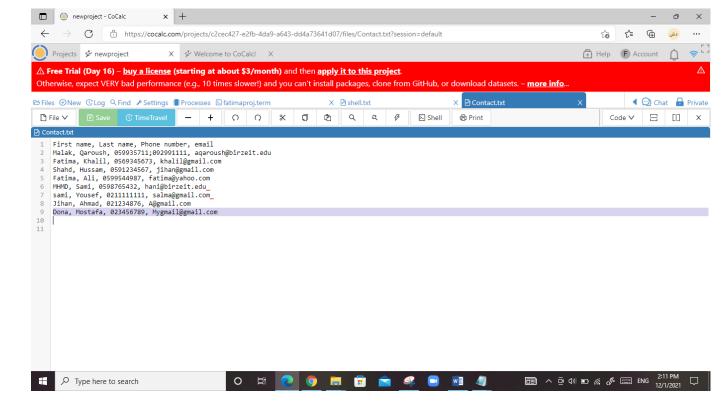


Figure 19

5-if the choice was  $5 \rightarrow$  delete the specific contact

## Delete the line contain the first name

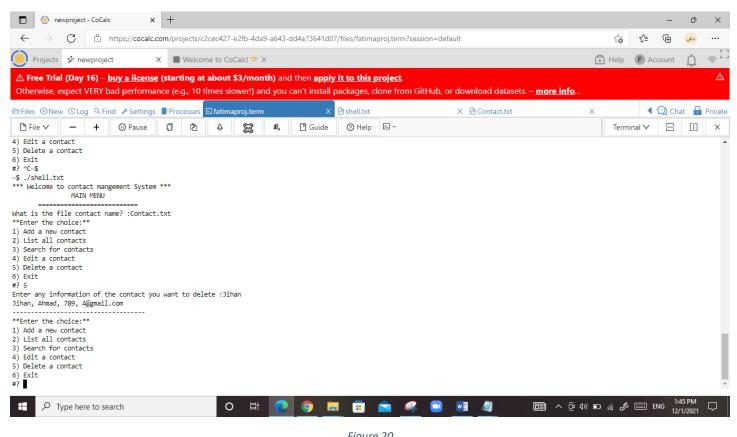


Figure 20

## File content after delete:

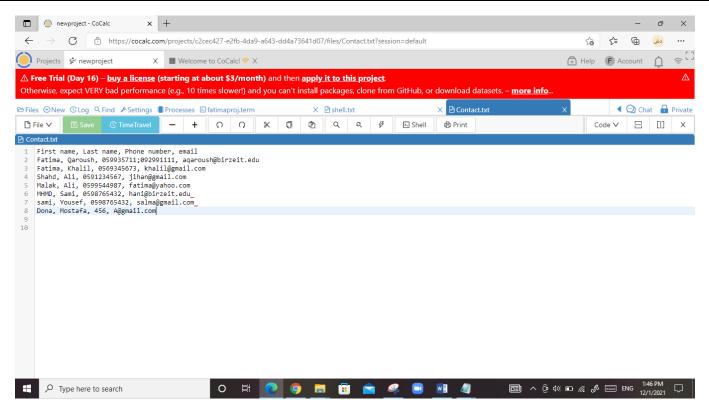


Figure 21

In the beginning Delete the line contain the required Last name Yousef and in the second time delete the contact that has the entered phone number

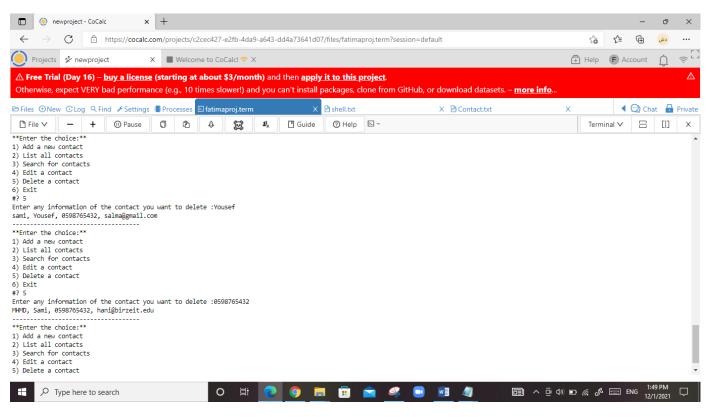


Figure 22

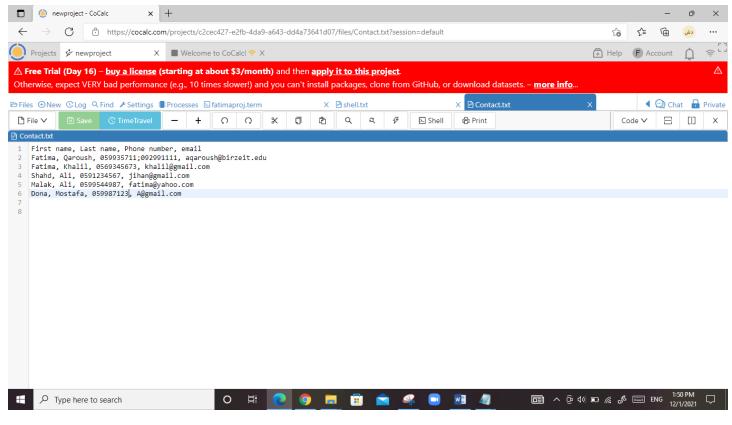


Figure 23

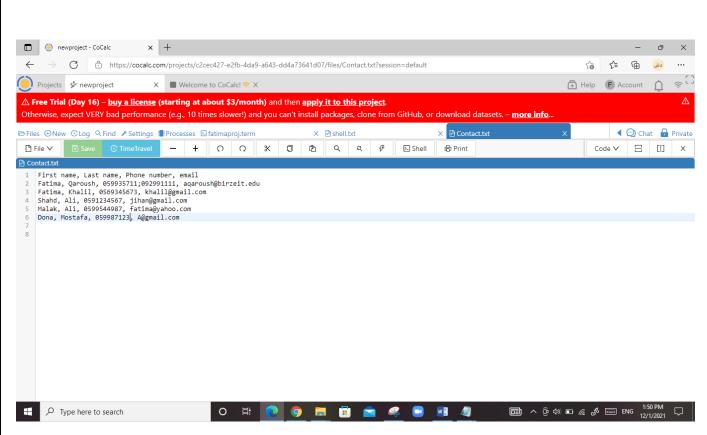


Figure 24

### Delete the line contain the entered email

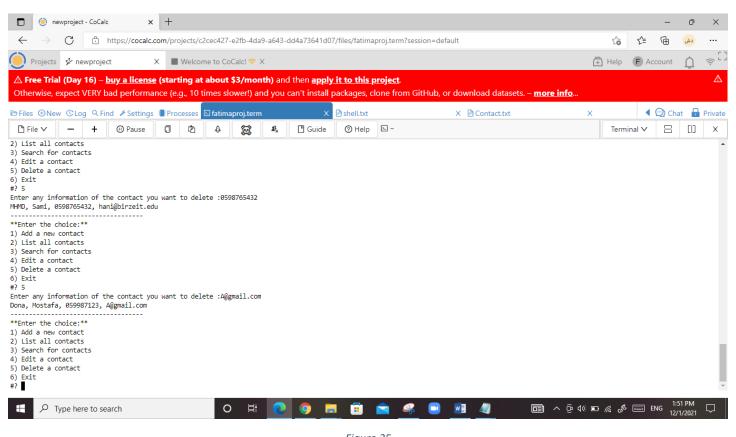


Figure 25

# File content after delete:

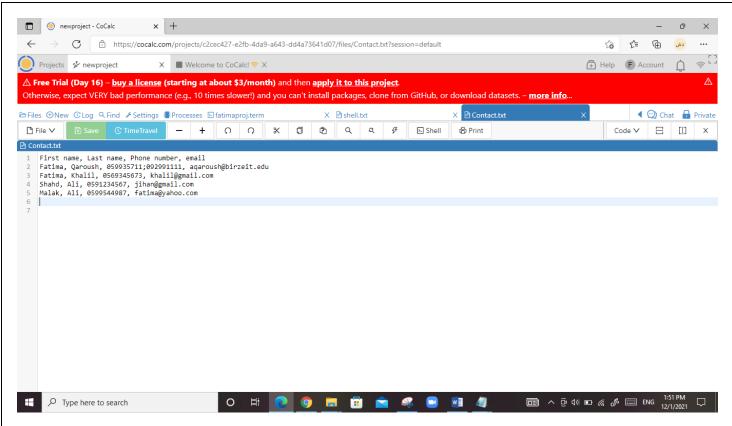


Figure 26

## If the user enter 6 as a choice, the program will exit:

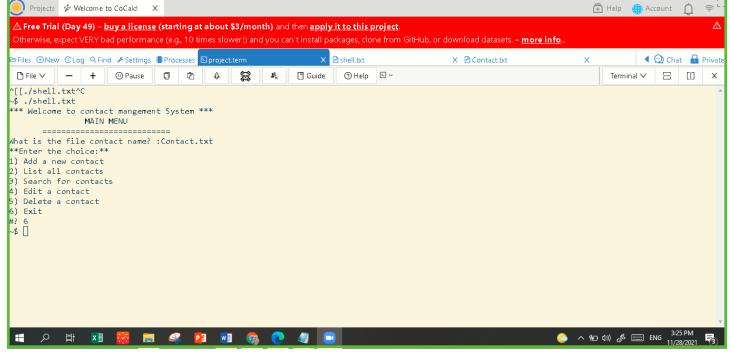


Figure 27