Contacts Manager
6/6/2024

40 Points Possible

Attempt 1 ⌄	◌ In Progress **NEXT UP: Submit Assignment**	▭ Add Comment

Unlimited Attempts Allowed
5/31/2024 to 6/7/2024

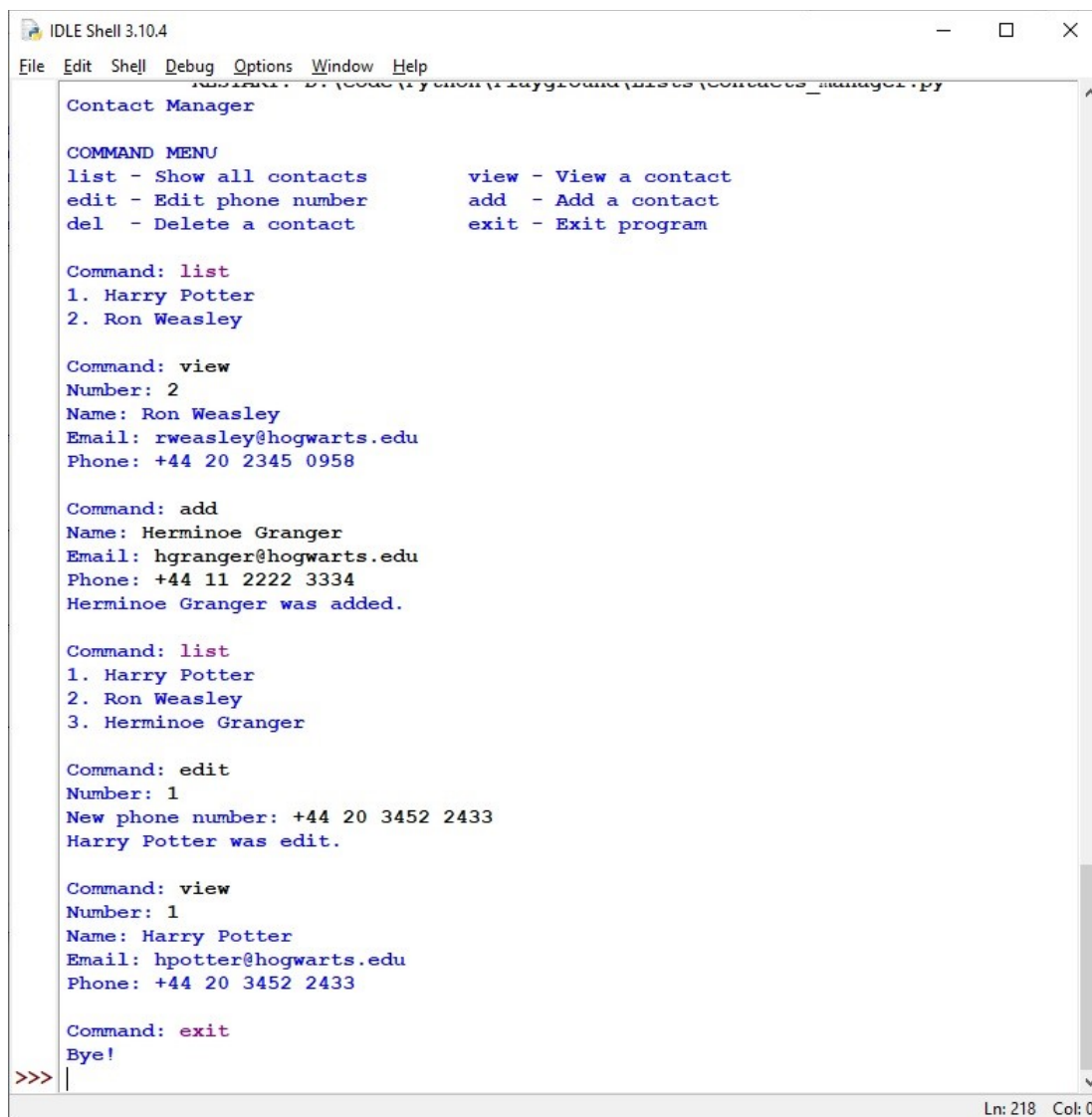## ⌄ Details

In this assignment, you will write a program that a user can use to manage the primary email address and phone number for a contact. It allows user to display all contact names, add a new contact or view, edit or delete an existing contact.

Specifically,

- Download starter code: **contacts_manager.py (https://bc.instructure.com/courses/2444521/files/244989665?wrap=1)** ⌄ **(https://bc.instructure.com/ courses/2444521/files/244989665/download?download_frd=1)** . The main function uses 3 parallel lists to store the data for the contacts: contacts_names list holds names of the contacts, contact_emails holds emails of the corresponding contacts and contacts_numbers holds phone numbers of the corresponding contacts. These three lists have been initialized to store data for two contacts.
- Complete the functions listed below in that file and make sure the program runs as shown in the sample runs.
  - **display:** This function takes a list of names as argument. It prints the names of the contacts as shown below.
  - **add:** This function accepts three arguments: names, emails and numbers. It prompts the user for data for a new contact and adds the information to the three lists.
  - **view**: This function also accepts three arguments: names, emails and numbers. It prompts the user for the contact number and prints the details of that contact as shown below.
  - **delete**: This function also accepts three arguments: names, emails and numbers. It prompts the user for the contact number and deletes the details of that contact from the three lists.
  - **edit:** This function also accepts three arguments: names, emails and numbers. It prompts the user for the contact number of the contact whose phone number is to be edited. Next it prompts for the new phone number and updates the phone number of that contact as shown below.
- For the view, edit and del commands, display an error message if the user enters an invalid contact number.
- For the list command, it should display "There are no contacts in the list." in case of zero contacts.

Sample Run 1: Valid input list, view, add, edit

Course Chat	▲

```
IDLE Shell 3.10.4                                                   —    □    ✕
File  Edit  Shell  Debug  Options  Window  Help
            RESTART: D:\code\Python\Playground\Lists\contacts_manager.py
Contact Manager

COMMAND MENU
list - Show all contacts        view - View a contact
edit - Edit phone number        add  - Add a contact
del  - Delete a contact         exit - Exit program

Command: list
1. Harry Potter
2. Ron Weasley

Command: view
Number: 2
Name: Ron Weasley
Email: rweasley@hogwarts.edu
Phone: +44 20 2345 0958

Command: add
Name: Herminoe Granger
Email: hgranger@hogwarts.edu
Phone: +44 11 2222 3334
Herminoe Granger was added.

Command: list
1. Harry Potter
2. Ron Weasley
3. Herminoe Granger

Command: edit
Number: 1
New phone number: +44 20 3452 2433
Harry Potter was edit.

Command: view
Number: 1
Name: Harry Potter
Email: hpotter@hogwarts.edu
Phone: +44 20 3452 2433

Command: exit
Bye!
>>> |
                                                      Ln: 218   Col: 0
```
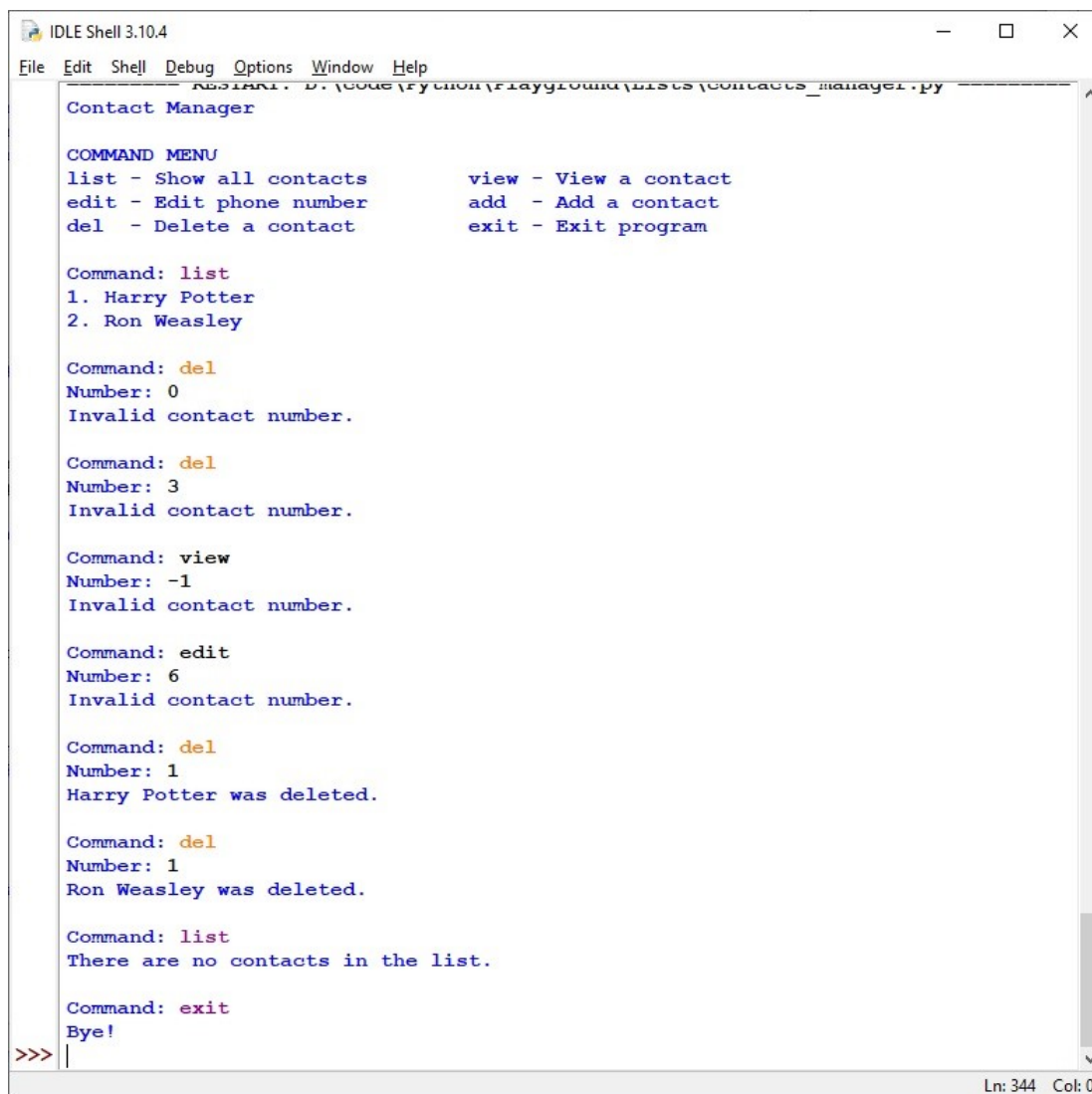
Sample Run 2: del, invalid number for view, del, edit, listing empty contacts

```
IDLE Shell 3.10.4                                          —    □    ×

File  Edit  Shell  Debug  Options  Window  Help

========= RESTART: D:\code\Python\Playground\Lists\contacts_manager.py =========
Contact Manager

COMMAND MENU
list - Show all contacts        view - View a contact
edit - Edit phone number        add  - Add a contact
del  - Delete a contact         exit - Exit program

Command: list
1. Harry Potter
2. Ron Weasley

Command: del
Number: 0
Invalid contact number.

Command: del
Number: 3
Invalid contact number.

Command: view
Number: -1
Invalid contact number.

Command: edit
Number: 6
Invalid contact number.

Command: del
Number: 1
Harry Potter was deleted.

Command: del
Number: 1
Ron Weasley was deleted.

Command: list
There are no contacts in the list.

Command: exit
Bye!

>>> |
                                                        Ln: 344   Col: 0
```
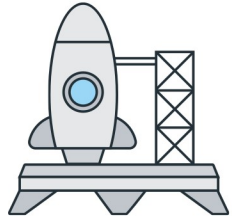
Save your program in a file with a name of the form: first_last_contacts.py. Make sure to add a block-comment at the start of the file that lists assignment title, class name, date, your name, and assignment description.

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