Chapter 7 – Extra Practice

Extra Practice

Extra practice is for those who would like to do some extra practice projects to further hone their skills learned in each assignment. There are no additional points to be gained by completing these projects.

Pig Dice Rules

Create a program that reads a list of rules from a file and displays them.

```
Pig Dice Rules:
* See how many turns it takes you to get to 20.
* Turn ends when player rolls a 1 or chooses to hold.
* If you roll a 1, you lose all points earned during the turn.
* If you hold, you save all points earned during the turn.
```

Specifications

- Download the **rules.txt** file.
- Your program should read the text file and display it on the console.

Contact Manager

Create a program that a user can use to manage the primary email address and phone number for a contract.

```
Contact Manager

COMMAND MENU
list - Display all contacts
view - View a contact
add  - Add a contact
del  - Delete a contact
exit - Exit program

Command: list
1. Guido van Rossum
2. Eric Idle

Command: view
Number: 2
Name: Eric Idle
Email: eric@ericidle.com
Phone: +44 20 7946 0958

Command: add
Name: Mike Murach
Email: mike@murach.com
Phone: 559-123-4567
Mike Murach was added.

Command: list
1. Guido van Rossum
2. Eric Idle
3. Mike Murach

Command: exit
Bye!
```

Specifications

- Download the **contacts.csv**.
- When the program starts, it should read the contacts from the CSV file.
- For the view and del commands, display an error message if the user enters an invalid contact number.
- When you add or delete a contact, the change should be saved to the CSV file immediately. That way, no changes are lost, even if the program crashes later.

Email List Cleaner

Create a program that reads a CSV file that contains a list of prospects for an email list, reformats the data, and writes the cleaned list to another file.

```
Welcome to the Email List Cleaner

Source list:  prospects.csv
Cleaned list: prospects_clean.csv

Congratulations! Your list has been cleaned!
```

The prospect.csv file

```
FIRST_NAME,LAST_NAME,EMAIL
james,butler,jbutler@gmail.com
Josephine  ,Darakjy,josephine_darakjy@darakjy.org
ART,VENERE,ART@VENERE.ORG
...
```

The prospect_clean.csv file

```
James,Butler,jbutler@gmail.com
Josephine,Darakjy,josephine_darakjy@darakjy.org
Art,Venere,art@venere.org
...
```

Specifications

- Download the CSV file named **prospects.csv** that contains a list of prospects.
- Your program should fix the formatted problems and write a file named prospects_clean.csv
- All names should use title case. To convert a string to title case, you can call the title() method from the string.
- All email addresses should use lowercase. To convert a string to lowercase, you can call the lower() method from the string.
- All extra spaces at the start or end of a string should be removed. To do that, you can call the strip() method from the string.