1 CSC299 - Fall 2015 - Lab Assignment 3

IMPORTANT INSTRUCTIONS

Use this URL to verify your progress:

`https://mdp.cdm.depaul.edu/csc299`

Login into:

`mdp.cdm.depaul.edu`

Under your csc299 folder create a new folder called `lab03` and, under the latter, create a new file called `README.json`. This file should contain:

`{"student_id": "<yourstudentid>", "name": "<yourname>", "email": "<youremail>"}`

After completing each task below remember to do:

```
git add README.json
git add *.txt
git add *.csv
git add *.py
git commit -a -m "task completed"
git push
```

else I will not receive your work.
ATTENTION: Files are different for each student.

1.1 Task 1 (2 points)

Create a new folder `/csc299/lab03` and `cd` under that folder.
Create a program called `program31.py` which downloads the files

`http://mdp.cdm.depaul.edu/csc299/static/data/<yourid>.accounts.csv`
`http://mdp.cdm.depaul.edu/csc299/static/data/<yourid>.expenses.csv`

and saves them in `accounts.csv` and `expenses.csv` respectively.

1.2 Task 2 (3 points)

Create a program called `program32.py` which reads `accounts.csv` and outputs the total of column 4 (BEGIN_BALANCE) to a file called `balance.txt`.

1.3 Task 3 (3 points)

Create a program called `program33.py` which reads `expenses.csv` and outputs the total of column 2 (EXPENSE) to a file called `totals.csv`. The format of this file should look like:

```
USER_ID, TOTAL_EXPENSE
0000001,$45.00
0000002,$67.00
0000003,$29.00
...
```

Where $45 would be the sum of all expenses of USER_ID 000002, etc. Actual numbers may vary.

1.4 Task 4 (3 points)

Create a program called `program34.py` which reads `accounts.csv` and `expenses.csv` and outputs to a file called `results.csv` the following columns:

```
USER_ID, FIRST_NAME, LAST_NAME, BEGIN_BALANCE, END_BALANCE
000001,Brook,Apple,$556868.00,$556606.00
000002,Judie,Giff,$441474.00,$441150.00
000003,Fred,Khalili,$518865.00,$518523.00
...
```

where the first 4 columns are the same as `accounts.csv` and the last column is compute using the formula:

```
END_BALANCE = BEGIN_BALANCE - TOTAL_EXPENSE
```

`TOTAL_EXPENSE` is the value computed at task 3.