1 CSC299 - - Lab Assignment 2

IMPORTANT INSTRUCTIONS

```
Use this URL to verify your progress:
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https://mdp.cdm.depaul.edu/csc299

Login into:

mdp.cdm.depaul.deu

Under your csc299 folder create a new folder called lab02 and, under the latter, create a new file called README.md. This file should start with:

Name: <yourname>

StudentId: <yourstudentid>

Email: <youremail>

Put the answers to the questions belong in the file /csc299/lab02/README.md. After completing each task below remember to do:

```
cd ~/csc299
git add .
git commit -a -m "task completed"
git push
```

else I will not receive your work.

1.1 Task 1 (3 points)

Change folder and go under /csc299/lab02.

Create a program called program1.py which contains:

```
from random import randint
myfile = open('data.csv','w')
for k in range(1000):
    myfile.write(', '.join([str(randint(0,1000)) for i in '0123'])+'\n')
```

Run it and make sure it creates a CSV file which contains 4 columns and 1000 rows of random numbers.

1.2 Task 2 (4 points)

Write a program in the same folder as the one above, called program2.py which when called with:

```
python program2.py
```

reads the above data.csv file and computes the totals of each column and stores in a file sums.csv the 4 numbers in one line separated by a comma. For example:

12344, 21123, 41212, 31244

1.3 Task 3 (4 points)

Write a program in the same folder as the one above, called program3.py which takes no input. The program will produce a file called bincount.csv which contains:

- 1, 10
- 2, 7
- 3, 10

. . .

The first column is a progressive number and the second column counts the number of files in /bin/ which have a filename length equal to the value in the first column. Example 10 files of length 1, 7 files of length 2, etc.

Tip: use os.listdir(...).