# Assignment 6 PartI

CS 2000: Python Programming Language

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In this assignment, you will write a generator for a csv file. The purpose of this portion of the assignment is for you to demonstrate understanding of the Python programming language and idioms. I expect you to put some critical thought into what functionality makes sense and how it would be implemented in a pythonic manner. It is worth 5 points and is due (04/13/2018), 12:00 pm.

#### 1. CSV Parser

CSV (comma separated value) is a common format for data files. In general, a csv with m rows (records) and n columns (fields) looks something like:

```
field 1 name, field 2 name, ..., field n name record 1 field 1, record 1 field 2, ..., record 1 field n record 2 field 1, record 2 field 2, ..., record 2 field n : record m field 1, record m field 2, ..., record m field n
```

As you can see, the first row is a header which gives the names of the fields and each subsequent row is a record. An example of a CSV file where each record represents a person is given below:

```
first, last, age
Sherri, Melton, 43
Gretchen, Hill, 28
Karen, Puckett, 47
Patrick, Song, 54
Elsie, Hamilton, 35
Hazel, Bender, 19
Malcolm, Wagner, 76
Dolores, McLaughlin, 33
Francis, McNamara, 21
```

Table 1. Example csv file, people.csv

### 2. Task

Create a Python generator **csvopen**. The generator should take a single argument, a csv file name, and should yield the following information of the file excluding the header:

```
1: Melton, Sherri
```

GH is number 2

3: Puckett, Karen

PS is number 4

5: Hamilton, Elsie

6: Bender, Hazel

MW is number 7

8: McLaughlin, Dolores

9: McNamara, Francis

[I do not want to see StopIteration @]

Using the people.csv file example, you should be able to use your csvopen generator as follows:

### 3. What to turn in:

## (Remember READABILITY COUNTS!)

- On e-Learning, submit your Python file whose name <a href="hw#6PartI\_LastName.py">hw#6PartI\_LastName.py</a>. Please format your Python code in the following manner:
- # Name: <your name here>
- # Date: <#/#/#>
- # Homework: <#>
- # Your code