HW - Introduction to Python
11/14/2018

Instructions

- Use data file *va16Data4_hw.csv* for this HW.
- save the final output file as *"va16Data4_hw_(your name).csv"*
- in order to see all the lines without any skips in betwee add the line:

```
pd.set_option('display.max_columns', None)
```

1. Import necessary packages

- pandas
- numpy
- datetime
- seaborn
- matplotlib.pyplot
- call *%matplotlib inline* for plots in notebook

2. Read the data file and set the ID as the index column.

3. How many rows and columns are in the data?

4. Examine the columns for Sex.

- i019a - Was the deceased male? - y
- i019b - Was the deceased female? - y

Examine each column using countplot and cross check between the two columns to see if there is any problem in the data. (There is a problem!)

5. Solve the problem found in #4

6. Spot a problem in the last column. Fix the problem using *split* and *apply* functions.

7. Are there any unusual entries from #7? Plot using the timestamps and list the unusual entries.

8. Examine the timestamp for the entries and find out when/how often *cronjobs* are set to run.

Cronjob refers to the automated command to run a specific file or script at a specified time and frequency.

9. Export file to a csv file named *"va16Data4_hw_(your_name).csv"*