CSCI-C 200

**Lab 7 – File Processing and Exception Handling**

**Description**

Download a csv file from data.gov. Preprocess the dataset (such as deleting some columns and rows) until you have a structured data set in the format of a 2-D array with a table header. If your data set is too large, such as having over 10000 rows of raw data, you can delete some raw data, but your data set should have at least 100 rows and 5 columns.

Use the csv file as the source file and performs the following:

1. Construct a new column, give a column header, and generate values using values in one or two original columns. You can combine values or perform a computation.
2. Create a new directory and create a csv file in the new directory. The new csv file should have
   1. All the data from the source csv file
   2. The extra column with header and values generated
   3. A meaningful file header, e.g. Electrical Bicycle 2004 Sales Report
   4. A meaningful file footer, with your name and the date when the report is generated

**Rubric**

* 1. The source file meets the requirement. (5’)
  2. The generated file meets requirement a - d. (10 x 4’)
  3. The generated file is in a new directory with the correct file type (.csv), and a meaningful file name. (5’)
  4. Exceptions are handled correctly. (10’)
  5. Program runs successfully and generates correct outputs. (30’)
  6. Follow professional coding standards (10’)
  7. -10’ for each bad coding occurrence.

**Submission**

Submit all your script file(s) and your source data file on Canvas. Without the source data file, your program cannot run thus cannot get points from rubric item 5.