CMDA 3654 - Fall 2015

Homework 1

Due: Friday 9/4/15 at noon

Submit a single R script and a companion PDF file containing your comments and the outputs to the scholar dropbox. To name your files, please refer to the course syllabus.

1. Fill out the survey below:

https://virginiatech.qualtrics.com/SE/?SID=SV 5oiz3Vhmf204XBj

- 2. Install R and RStudio.
- 3. Breeze through Part one of the "Practical Data Science with R" textbook.
- 3. Go over the "basics.R" script file posted on the course website.
- 4. Create a free account on GitHub website. Download and Install the GitHub desktop application.
- 5. Read the following guides from the GitHub website:
 - Hello World
 - Getting your project on GitHub
 - Forking projects
- 6. Consider the dataset on http://data.princeton.edu/wws509/datasets/effort.dat
 - a) Print out only the observations with 0 effort.
 - b) Print the names of the variables.
 - c) Print the names of the rows using one function.
 - d) Print out the first and the last 10 observations in the dataset.
 - e) Export your data frame as both a text and a .csv files.
- 7. Load the phsample.RDATA from the Git link provided in the "PDSR" (Practical Data Science with R) textbook on page 31.
 - a) Describe in a sentence or two (R comment) what the dataset is about.
 - b) Replicate the textbook Listing 2.12, 2.13, and 2.14 code.
 - c) Comment for each of the above what the code is doing.