CIS8695

**Homework I (Due: 1/21/2019, Midnight)**

**What to Turn In:**

Please write your answers and paste required results/reports in **a MS Word file**. **Note: Please do NOT submit any other file format, because it will cause grading inconveniency. Failing to submit in correct file format will cause the loss of homework grades! You can use screenshots if it is convenient for you.**

**Problems**

Homework problems are all from the textbook. For your convenience, the pictures of the problems are also attached in the document at the end. Datasets are provided on iCollege.

**Problem 1**. (Linear Regression). Look at Problem 6.1 in Chapter 6 of the Textbook, page 169. (A picture of the problem is attached below). Complete (b), (c) and (d.iii) of Problem 6.1.

**Problem 2**. (Linear Regression). Look at Problem 10.1 in Chapter 10 of the Textbook, page 268. (A picture of the problem is attached below). Complete (b), (d) and (e) of Problem 10.1. Note for part (b), please write down your calculation equations.

**(Optional)** You are also encouraged to try Ridge Regression and Lasso for both the two problems.



