Software Homework 8 & 9 MTH 145 – Spring 2016

Due Wednesday, 11 May, at 2:29pm

Objective:

The goal of this assignment is to demonstrate your ability to use statistical software to conduct ANOVA and Regression.

Dataset:

The file sleep contains data that were obtained from a sample of students who did skills tests to measure cognitive function, completed a survey that asked many questions about attitudes and habits, and kept a sleep diary to record time and quality of sleep over a two week period. It has a total of 253 observations with each observation have values for 12 variables. These variables are listed below.

- Alcoholuse: Self-reported (o: Abstain, 1: Light, 2: Moderate, or 3: Heavy)
- AnxietyScore: Measure of amount of anxiety
- AverageSleep: Average hours of sleep for all days
- ClassesMissed: Number of classes missed in a semester
- CognitionZscore: Z-score on a test of cognitive skills
- DASscore: Combined score for depression, anxiety and stress
- DepressionScore: Measure of degree of depression
- GPA: Grade point average (o 4 scale)
- Happiness: Measure of degree of happiness
- LarkOwl: Early riser or night owl? (1: Lark, 2: Owl, or 3: Neither)
- PoorSleepQuality: Measure of sleep quality (higher values are poorer sleep)
- StressScore: Measure of amount of stress