

## **Assignment 4.**

**Due on October 28<sup>th</sup>, 2012-**

Read chapter 4 of your book carefully. Review chapters 2 and 3 if needed.

### **Part 1. Descriptive statistics.**

Please use the experimental data you got in Assignment 1 for this exercise. If you need to add some data, do that. (If you are not happy with your experiment from Assignment 1, you may conduct a new one. Do not forget to state the null hypothesis and alternative hypothesis, as well as all other related variables). You should have a minimum of 10 data entries for each condition. Make sure that your data set is free from errors and coded if data is not numerical to start with (see page 70-72).

- 1) Find all applicable descriptive statistics such as mean, median, mode, range, variance, deviation (pg. 73 and 74)
- 2) Can you assume that your data set has a normal distribution? Draw a histogram showing your data.

### **Part 2. Statistical analysis.**

- 1) Use Excel or any other package that you may be familiar with containing ANOVA test and apply it to your data.
- 2) Interpret obtained results.