# Homework 1

**Section 8.1**:- 23, 29,30,31,32.$\surd$
**Section 8.2**:- 19, 25, 27.$\surd$
**Section 8.3**:- 12, 13, 16, 19, 21.$\surd$
**Section 8.4**:- 9, 11, 12, 13.$\surd$
**Section 9.1**:- 7, 9, 11, 14, 27, 29, 30.($\surd$)
**Section 9.6**:- 1, 3, 5, 7, 9, 10, 11, 12.($\surd$)
**Section 9.2**:-Read the Section. 4, 5, 6, 7, 8, 12, 15(b,c) , 17 (b), 21, 23, **25** . Write SAS Program to find the standard Deviation, mean, Maximum and Minimum for DATA SET of 15, 16,17.($\surd$)
**Section 9.3**:- Read this section in details, its very similar to 9.2. 3, 5, 7, 11, 15. Write SAS Program to find the standard Deviation, mean, Maximum and Minimum, confidence Interval for DATA SET of Problems 19,20,21,22.

**Note:-** Homework 1 is designed for the first Quiz. I will do SAS T-Test in class on Tuesday. Section 9.2 and 9.3 home works Should be finished before the First Quiz. The $\surd$ once are your current home works.

# Homework 2

**Section 10.1**:- 1, 3, 5, 6, 9, 11, 12, 13, 14, 16, 17.(For problems 9-17, don't solve the Box plots question, Use SAS to check your answers) ($\surd$)
**Section 10.2**:- 1, 3, 5, 9(a,b,c), 12 (b,c), 15, 16, 17, 18.($\surd$)
**Section 10.3**:- 1, 3, 5, 7, odd(9-18), 19.($\surd$)
**Section 10.4**:- 1, 3, 5, 9, 11, 13.($\surd$)
**Section 11.1**:- 3, 4, 5, 7, 11, 12.($\surd$)

# Homework 3

**Section 4.2**:- Using the data set of the following problems, write down the `Normal equations` first and then find the `Least Square Line.`
1, 2, 4, 5, 6, 7.

`Note:-`
1.**Read Section 4.1 page no. 192 and 193. (Scatter Diagrams Only)**
**Problems from the extra material.**
**Problem No.**:- 16.5, 16.9, 16.12, 16.18, 16.34, 16.35, 16.37, 16.46, 16.47, 17.4, 17.6, 17.7, 17.13.
For problems in section 17 interpret the value of $R^2$.
Back To Our text Book...
**Section 12.1**:- 1, 3, 5, 11(Use SAS to check ans and don't solve part c), 15 (Use SAS and don't do b).
**Section 12.2**:-1, 3, 9, 10.

# Homework 4

**Section 12.3**:- All odd problems from problem no. 3. Don't worry about the box plots or normality issues. Use SAS to check your results.
Note:- Two way ANOVA problems will be posted tomorrow.

# Homework 5

**Section 13.3**:- For each of the following problems in sec 13.3 compute **1.Null and Alt Hyp**, **2. The Test Statistic S (follow the class notes not the book)**, **3. Compute the $p_{cal}$ by using binomial table** and lastly **4. Write the conclusion.**
5, 7, 9, 10, 11, 12.
**Section 13.4**:- 11, 13, 14, 15, 16.
**Section 13.5**:- 3, 5, 7, 9, 11.
**Section 13.6**:- 1, 3, 7
**Section 13.7**:- 1, 2, 5, 6.