

**Homework 1C**  
**Total Points 15**

**Do analysis using R**

**The data of each Problem is given in the Excel Spread Sheet**

**For all the problems write hypothesis, Identify the test, Perform the test using R, and Evaluate the hypothesis. Please submit the R script. Use simple R packages / commands.**

**PROBLEM 1:** Given is the data for average calories burned by two Type 2 Diabetes Patient groups after exercising regularly.

Understand the data using appropriate statistical method (test) taught in the class. Write your own hypothesis and evaluate it based on the test result.

**PROBLEM 2:** Given is the data for average calories burned by Type 2 Diabetes Patients after exercising regularly for a week.

Understand the data using appropriate statistical method (test) taught in the class. Write your own hypothesis and evaluate it based on the test result.

**PROBLEM 3:** Given is the data for average calories burned with and without pill + Daily Exercise for Type 2 Diabetes Patients.

Understand the data using appropriate statistical method (test) taught in the class. Write your own hypothesis and evaluate it based on the test result.

Suggestions for R script:

`Ind.t.test(col1 ~ col2 , data = Datafile name)`

Paired T-test or Dependent T-test

`dep.t.test` or `paired t.test`