***Tutorial 5-6– Data Import and Preprocessing***

1. Write a program to access and print the following data set included in R:
   1. ***AirPassengers*** in ***datasets*** package.
   2. ***economics*** in ***ggplot2*** package.
2. Create a text file manually and save the following content in it:

12000

7000

9000

6000

8000

Then, write a program read this file and print the minimum, maximum, and average values.

1. Write an R program to read the content of a CSV file located in the following link <http://www.jaredlander.com/data/TomatoFirst.csv> . Then, use the obtained data to achieve the following tasks:
   1. Return how many rows and columns in this file.
   2. Return the details of the least *Sweet* tomato type.
   3. Return the summation of prices when the *Source* is “Whole Foods”.
2. Write an R program to read the content of third sheet in an excel file located in the following link <http://www.jaredlander.com/data/ExcelExample.xlsx> .
3. Write an R program to download an SQLite database located in the following link <http://www.jaredlander.com/data/diamonds.db> . Then, do the following tasks:
   1. Connect to this dataset. Then list the tables in this dataset and the fields in each table.
   2. Retrieve all the elements of all the rows of *diamonds* table.