This is for Coursera final project for getting and cleaning data.

The R script called run\_analysis.R does the following.

Download the dataset if it does not already exist in the working directory. The dataset contains test set and train set.

Loads train/X\_train.txt which contains all the measurements.

Assign the variable names from features.txt

Loads the subjects from train/subject\_train.txt

Loads activity Id for each measurement from train/y\_train.txt

Loads test/X\_test.txt which contains all the measurements.

Assigns the variable names from features.txt

Loads the subjects from test/subject\_test.txt

Loads activity Id for each measurement from test/y\_test.txt

Creates final dataset merging the training and the test set to create one data set.

Extracts only the measurements on the mean and standard deviation for each measurement.

Assigns descriptive activity name to name the activities in the data set

Creates dataset with average of each variable for each activity and each subject.

The final result is tidydata.txt which consists of subject,activityname and average of measurements for each subject and activity