OBJECTIVE.

1. You should create one R script called run\_analysis.R that does the following.
2. Merges the training and the test sets to create one data set.
3. Extracts only the measurements on the mean and standard deviation for each measurement.
4. Uses descriptive activity names to name the activities in the data set
5. Appropriately labels the data set with descriptive variable names.
6. From the data set in step 4, creates a second, independent tidy data set with the average of each variable for each activity and each subject.

Run\_analysis.R

1. The code downloads **UCI HAR** Dataset and puts the zip file into working directory and after download it unzip the file into **UCI HAR** Dataset folder.
2. Using rbind, **TRAIN** and **TEST** data are loaded and appended into one data frame.
3. Mean and standard deviation are extracted from convertdata data set. This is done using grep
4. Column names are cleaned and applied to X data frame
5. It loads **activities** data set and converts it to lower case using tolower, underscore is removed using gsub. *activity*and *subject* column names are named for **y** and **subj** data sets, respectively.
6. The three data sets, **x**, **y** and **subj**, are merged. Then, exported as a *txt* file into the Project folder in the same working directory, named **merged.txt**.
7. The *mean* of activities and subjects are created into a separate tidy data set which is exported into the Project folder as *txt* file; this is named **average.txt**.

Run\_analysis.R includes str for easier preview of the two final data sets.