Code book for “Getting and Cleaning data” course project

Data source:

<http://archive.ics.uci.edu/ml/datasets/Human+Activity+Recognition+Using+Smartphones>

The above link describes about the data and the actual data is downloaded using the following link

<https://d396qusza40orc.cloudfront.net/getdata%2Fprojectfiles%2FUCI%20HAR%20Dataset.zip>

The dataset

The dataset had following

**Training:** x\_train, y\_train & subject\_train

**Test:** x\_test, y\_test & subject\_test

The training and test data were combined to obtain the final dataset for getting the tidy dataset.

Features had variable names and were applied to the respective columns in the final dataset.

R Codes for this project:

The R code was written under the following five broad heading to get the final tidy dataset and is stored as run\_analysis.R

1. Merges the training and the test sets to create one data set.
2. Extracts only the measurements on the mean and standard deviation for each measurement.
3. Uses descriptive activity names to name the activities in the data set
4. Appropriately labels the data set with descriptive variable names.
5. 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.