The uploaded file contains several steps to make the data tidy and also create a new set of data.

1. The untidy data is downloaded and extracted in a folder called UCI HAR Dataset

2. We assign appropriate names to variables:

* features. txt -> features
* activity\_labels.txt -> activities
* subject\_test.txt -> subject\_test
* x\_test.txt -> x\_test
* y\_test.txt -> y\_test
* subject\_train.txt -> subject\_train
* x\_train.txt -> x\_train
* y\_train.txt -> y\_train

3. We use ‘rbind()’ function to merge data:

x = x\_train + x\_test

y = y\_train + y\_test

subject = subject\_train + subject\_test

Therefore, we can have the final data using ‘cbind()’ function

FinalData = subject + y + x

4. Then we make a new set called Madetidy by calculating mean and standard deviation using their necessary codes.

5. We label each column appropriately:

Acc = Accelerometer

Mag = Magnitude

f = Frequency

t = Time

Gyro = Gyroscope

BodyBody = Body

-mean() = Mean

-std() = Standard Deviation

6. Finally Namedata is created which contains the mean and standard deviation of each variable.