# Code Book

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## VARIABLES

Following are the variables used in the script run_analysis.R for the purpose of creating tidy data set for the Samsung Phone sensor data.

1. vardata : reads variable names from feature.txt
2. variables : contains separated variable names from vardata
3. act_label : reads activity labels from activity_labels.txt
4. actlabels : contains separated variable names from act_label
5. xtest1 : reads test data from X_test.txt file
6. subjecttest : subject data for test entries
7. ytest : activity data for test entries
8. xtraining : reads training data from X_training.txt file
9. subjecttraining : subject data for training entries
10. ytrain :activity data for training entires
11. testdata : collated test data with activity, subject and observations
12. traindata : collated training data with activity, subject and observations
13. fulldata : combined test and training data
14. mean_index : the indices of columns where mean variables exist
15. mean_data : the mean values for measurements
16. std_index : the indices of columns where standard deviation variables exist
17. std_index : the standard deviation values for measurements
18. fulldata2 : contains combined data of mean and standard deviation
19. ans : final tidy data set