Data Dictionary – run_analysis.R

address   - URL of zipped data
root   - root of filepath (to reduce typing)
train_x   - 'training' data for all 561 measurements recorded by the accelerometer
train_y   - activity type labels for train_x
test_x   - as above for 'test' dataset
test_y   - as above for 'test' dataset
features   - labels for train_x 561 data columns
train_subj   - subjects (participants) part of the 'training' exercise
test_subj   - as above for 'test' exercise
labels   - activity types, 1-6, to match to test(train)_y

test   - combination of 'test_subj', 'test_y' and 'test_x', forming 563 new columns,
                 "Subject", "Activity" and the measurements from the features variable
train   - as above for 'training' dataset
combined   - combination of test and train variables

labeled   - replacement of 'Activity' code numbers with activity types from 'labels' variable
to_keep   - array of data that we wish to keep, namely anything with 'mean()' or 'std()' amongst
                 the variables from 'features'
finalData   - all data, tidied and properly labeled, and pared down to those measurements identified
                 by 'to_keep'

tidiedMelted   - reduction of 'finalData' to a narrow data set, i.e two columns, 'Activity' and 'Subject'
tidied   - data frame produced from 'tidiedMelted' with the mean of all measurement, separated
                 by activity and subject and all combinations therein