Instructions for creating model files and trajectories from static system ID experiments

1. Process motion capture data
    - Copy “getactive.m” and “smoothmotion.m” to the “$/datafiles” directory.
    - Run “getactive.m” to produce the file “parseddata.mat”, eliminating trials with bad motion capture data.
    - Copy “parseddata.mat” into the “$/models” directory.
2. Make models
    - Modify the last line of “computemodels.m” so that the date of the saved file is clear.
    - Run “computemodels.m”.
    - Put your model file in the “$/trajecotryGeneration$ directory.
3. Make trajectories
    - Modify the first line of “computeFeasible.m” to find the correct model file.
    - Get updated humerus and forearm lengths, shoulder position, carry angle, and thorax rotation from “parseddata.mat” or a datafile for shoulder position
    - run “computeFeasible.m” (do this ahead of time)
    - Get new recruitment curve data if necessary (do this day of control experiment)
    - Set up optotrak and record thorax orientation, shoulder position, humerus length, and forearm length in “findfeasiblepath.m”.
    - Run “findfeasiblepath.m”
    - Pick 20 unique trajectories
    - randomize the order of trajectories