```
% ECE 4560 - Homework 6, Problem 7
% Caitlyn Caggia
%modified from testCalib01.m
function HW6prob7
myparms = load('pikparms.mat');
pikh = piktul(myparms);
fingerWidth = 1;
z = [1 -1 1/4];
g0 = [0 \ 0.5 \ pi/6];
T0 = 0; Tfinal = 4;
[t, z] = ode45(@HW6prob7func, [T0 Tfinal], g0);
a2 = z(:,1); a3 = z(:,2); a4 = z(:,3);
dtNow = t(2) - t(1);
for ii = 1:5
                         % Send several commands until it listens.
 pikh.gotoSleep();
                          % Usually responds by third command.
 pause(0.05);
end
pause(1);
pikh.gotoHome();
                           % Send it to the home position.
disp('At home position, press return to start ...');
pause();
for ii = 1:t
                  % Run the routine.
 pikh.setArm(alphaNow, dtNow*1.1);
  pause(dtNow);
  alphaNow = [1; a2(ii); a3(ii); a4(ii); 3/4];
end
disp('Done, shutting down.');
alpha_fk = [1.2; 30; -60; -10; 0.75];
pikh.setArm(alpha_fk);
disp('Done, hit return to end.');
pause();
pikh.gotoSleep();
                           % Go to sleep,
then shutdown.
end
fnames =
  3×1 cell array
    'alphaLims'
```

```
ans =
logical
0

Error using fprintf
Invalid file identifier. Use fopen to generate a valid file identifier.

Error in piktul/setArm (line 239)
    fprintf(this.serialid, cmdstr);

Error in piktul/gotoSleep (line 164)
    this.setArm(this.alphaSleep, time);

Error in HW6prob7 (line 20)
    pikh.gotoSleep(); % Usually responds by third command.
```

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'musecLims'