```
% Homework 10 (Alternative)
% Nicholas Ngo Syuan Yaw (ERAU)
% AE308 01DB
%% Mach 3.0
clear
clc
close
M1 = 3.0;
cl1file = dlmread('cl case 1.txt');
cd1file = dlmread('cd case 1.txt');
clldata = cllfile(:,2);
cdldata = cdlfile(:,2);
cl1 = mean(cl1data);
cd1 = mean(cd1data);
%% Mach 1.0
M2 = 1.0;
cl2file = dlmread('cl case 2.txt');
cd2file = dlmread('cd case 2.txt');
cl2data = cl2file(:,2);
cd2data = cd2file(:,2);
c12 = mean(c12data);
cd2 = mean(cd2data);
%% Mach 0.8
M3 = 0.8;
cl3file = dlmread('cl case 3.txt');
cd3file = dlmread('cd case 3.txt');
cl3data = cl3file(:,2);
cd3data = cd3file(:,2);
```

```
cl3 = mean(cl3data);
cd3 = mean(cd3data);
%% Mach 0.3
M4 = 0.3;
cl4file = dlmread('cl case 4.txt');
cd4file = dlmread('cd case 4.txt');
cl4data = cl4file(:,2);
cd4data = cd4file(:,2);
cl4 = mean(cl4data);
cd4 = mean(cd4data);
%% L/D for All Cases
LD1 = cl1/cd1;
LD2 = c12/cd2;
LD3 = c13/cd3;
LD4 = cl4/cd4;
%% Table
values = {M1, cl1, cd1, LD1; M2, cl2, cd2, LD2; M3, cl3, cd3, LD3; M4, cl4, cd4, LD4};
headers = {'Mach', 'Cl', 'Cd', 'L/D'};
xlswrite('HW10 NNSY Alternative.xlsx',[headers; values]);
%% Plots
values = [cl1, cd1, LD1; cl2, cd2, LD2; cl3, cd3, LD3; cl4, cd4, LD4];
x = categorical({'3.0', '1.0', '0.8', '0.3'});
bar(x, values);
xlabel('Mach');
ylabel('Cl, Cd, L/D');
legend('Cl', 'Cd', 'L/D', 'Location', 'northeast');
%end
% Nicholas Ngo (2018)
```