```
Christopher Brant ENGR 1410-625 2/5/16
    Assignment A6 Part B
clear
clc
    Set cell array of values
Mat = {'Aluminum' 'Cadmium' 'Iron' 'Tungsten'};
MatCp = [897 231 450 134];
FinalT = 50;
                    %[deq C]
% choice = menu('Select a material', Mat);
choice = 3;
fprintf('Enter mass [g] and temperature [deg C] of %s as [m T]:',
Mat{1,choice});
% functIO = input(' ');
functIO = [6500 325];
functIO(1,3) = MatCp(1,choice);
[ER, VG] = ThermE(functIO(1,1), functIO(1,2), functIO(1,3));
Mass = functIO(1,1) / 1000;
fprintf('\n\nFor the %0.1f kg %s rod with an initial temperature of
0.0f [deg C] n', Mass, Mat\{1, choice\}, functIO\{1, 2\});
fprintf('\tEnergy Removed [J]\t\t%0.1e\n\tVolume Glycerol [gal]\t%0.2f
\n', ER, VG);
Enter mass [g] and temperature [deg C] of Iron as [m T]:
For the 6.5 kg Iron rod with an initial temperature of 325 [deg C]
 Energy Removed [J] 8.0e+05
Volume Glycerol [gal] 2.69
```

Published with MATLAB® R2015a