```
% Christopher Brant ENGR 1410-625 2/4/16
  Assignment A6 Part A
function[Q, V] = ThermE(m, T, Cp);
  Set universal variables
DenW = 1000; %[kg/m<sup>3</sup>]
% Properties of Glycerol
CpG = 2400;
             %[J/(kg * K)]
SGG = 1.261;
             %[unitless]
TempFarenheitC = (75 - 32) * (5 / 9);
% Perform conversions and calculations for Q
DeltaTM = T - 50;
M = m / 1000;
Q = M * Cp * DeltaTM;
% Perform conversions and calculations for V
LperGal = 3.78541178;
LperMCUBE = 1000;
MG = Q / (CpG * DeltaTG);
Density = SGG * DenW;
Vol = MG / Density;
V = (Vol * LperMCUBE) / LperGal;
```

Published with MATLAB® R2015a