# Reminder of Basic EES Tasks

* Setting unit system
* Adding comments to your code
* Defining variables
* Defining units for variables and checking on unit consistency

# Advanced EES Features:

* Converting units
* Storing variables in an array table
* Adding processes to P-v and T-s diagrams

1. The first step of your analysis is a water feedpump that starts at P = 40 kPa and a quality of x=0. This is an isothermal process, with the exit pressure being at 10 MPa. Create an array table that includes variables of:

* Pressure (kPa)
* Temperature (°C)
* Quality
* Specific volume (m3/kg)
* Enthalpy (kJ/kg)

1. Continue the array table for states 2 and 3
2. Create a P-v diagram (Property plot) with isotherms of 50, 100, 250, and 700 °C. Do not show lines of constant entropy, but do show lines of constant quality.
3. Add the points from your array table to the plot using the “overlay plot” button. Make your points red. Do \*not\* connect your points by lines (unless you know the path they follow is a straight line).
4. Add labels to each of your points that say “State \_\_”, and link them to the data point.