1. Equation:

$$\frac{\partial^2 T}{\partial x^2} = 0$$

- 2. Initial conditions:
 - a. Wall temperature 373 K,
 - b. Ambient temperature 278 *K*.
- 3. Boundary conditions:
 - a. Dirichlet boundary condition,
 - b. Fourier boundary condition.
- 4. Physics parameters:
 - a. Density = 8960 $\frac{kg}{m^3}$,
 - b. Specific heat = 384.4 $\frac{J}{KgK'}$
 - c. Thermal conductivity = $401 \frac{W}{mK'}$
 - d. Convection heat transfer coefficient = $\frac{W}{m^2K}$.
- 5. Steps:
 - a. Time step 10 s,
 - b. Length step 0.05 m.