Lecture 4 Shashank Bhushan 8th April 2020

- We discussed and walked over the general form an advection-diffusion equation
- We walked over with a basic example setup to use finite difference methods using fourier law.
- We discussed how to set up a system of linear equations
- We discussed the importance of boundary conditions to obtain a finite solution for the system of equations. In the given 2nd order differential equation, we would at least need 2 boundary conditions otherwise our vector column of constants (B in Ax=B) might just have all 0s.