Saransh Vottery
22B0348
B tech in Chemical eng., (1st Year)

Progress Report:

Week 1 (until 14 May) :

	Tasks	Status
1.	Basics of Python	Completed
	Num. methods(+implementation)	
2.	Newton Raphson method	Completed
3.	Euler's Method	Completed
4.	Jacobi method	Completed
5.	Gauss Seidel method	Completed
6.	Example notebook	Completed

Implementations of numerical programs

https://colab.research.google.com/drive/1lRV9xepNBDvRlhhfLvsxWCBSogD8-lVS?usp=sharing

Mini Project-1
https://colab.research.google.com/drive/1tPvfwXPgK4ccNHbASaRtrHCsWhZPWWIS

Mini Project-2
https://colab.research.google.com/drive/1yVtJk3GYd3PjtnxXhts6TAHJKXBacwhO?usp=sharing

Mini Project-3
https://colab.research.google.com/drive/1-SnJuwjzddfOobCoyV1ciZ1i_BYmt_ho?usp=sharing

Final Project
Topic: Simulation of fluids in different systems

Description: In this project,I will try to simulate fluids in different systems like pipe,cavity etc. by solving the Navier Stokes equation.

Actionable steps:
1) Solving the equation by FDM
2) Simulating fluid flow in a pipe
3) Simulating fluid flow in more complex systems