Simran Sinha
210260051
Sophomore, EP

Week 1-2: Working with Scientific Computing Libraries and Numerical methods
> https://github.com/infinite55/SoC_2023.git

Week 3-5: Mini project-1(Discrete Poisson Equation)
https://github.com/infinite55/SoC_2023/blob/0508dc70160a6f85aa4524ac4763518fdcb73853/Mini_Projects/Mini_Project-1/poisson_assignment.ipynb

Week 6-8: Mini project-2(Hydrogen Atom)
Notebook crashes while running the code for power iteration method, and if the code is ran on anaconda jupyter notebook or cloud(aws SageMaker), it shows some memory allocation issue for array, so haven't been able to correct the code since its not running at all, but will modify it in a while
https://github.com/infinite55/SoC_2023/blob/c499c4b82388176cb423934e86f72573238c6321/Mini_Projects/Mini_Project-2/hydrogen_atom_mini_project_2_Solution.ipynb

Week 9-10: Mini project-3 (Time Evolution and Chaos)
https://colab.research.google.com/drive/1NTkSj5sAVlAdMdRCzVE9N7rN4IGaBcHO?usp=sharing
Couldn't plot Lorentz attractor system as the notebook kept crashing at that point

Week 11-14: Open ended Project
> Topic: Ising Model
https://github.com/infinite55/SoC_2023/tree/c499c4b82388176cb423934e86f72573238c6321/Ising%20Model