

Lab Assignment

Last Date of Submission – 5th April 2021

1. Write a program in C to implement the Gauss Seidel Method. The set of linear equations should be taken as input in the form of equation during the execution time from the user.

Example: if you have to find the solution of the following set of equations

$$x+y-z=-2$$

$$2x-y+z=5$$

$$-x+2y+2z=1$$

Then the user should input the above 3 equations as it is. (not the coefficients and constants alone).

2. Write a C program to implement following scenario
 - a. The user is expected to enter the equation or set of equations (equations can be linear polynomial or non-linear polynomial)
 - b. There should be a provision to select the method to solve the equation(s)
 - c. The result on the basis of method selected should be displayed with the graphical representation highlighting the roots or solution. (graphics.h can be used for Graphical representation)

Note:

- Submission guidelines will be notified later
- Please ensure that you create and submit your own code, as **the submissions will be checked for plagiarism.**