

Assignment – 5

1. Write a C program to solve the system of linear equation by Gauss Elimination method

$$x - 2y + 9z = 8$$

$$3x + y - z = 3$$

$$2x - 8y + z = -5$$

2. Write a C program to solve the system of linear equation by Gauss Elimination method

$$x + 2y + z = 0$$

$$2x + 2y + 3z = 3$$

$$-x - 3y = 2$$

3. Write a C program to solve the system of linear equation by Gauss Seidel method

$$3x + 9y - 2z = 11$$

$$4x + 2y + 13z = 24$$

$$4x - 2y + z = -8$$

4. Write a C program to solve the system of linear equation by Gauss Seidel method

$$10x + 5y + 3z = 32$$

$$x + 5y + 3z = 23$$

$$2x + y - 5z = -16$$