

Sr. No	Name of Experiment
1	Write a C and SCILAB program to find Rank of a Matrix.
2	Perform various SCILAB Basic Commands.
3	Write a program in SCILAB to plot functions in 2D and 3D. (With Output)
4	Write a function in SCILAB to find whether given matrix is singular or not.
5	Write a SCILAB program to demonstrate Level Sets with Rosenbrock's (Banana) function. (With Output)
6	Implement a SCILAB program to find out various norms of vector and Matrix.
7	Write a function to find solution of Linear function $AX=b$ in SCILAB.
8	Solve LPP problems using Karmarkar Method in SCILAB.
9	Plot LPP problems using Contour and Plot2d function in Scilab.
10	Formulate LPP problem from given problem statement.
11	Solve and Plot Primal and Dual problem using Karmarkar Method in SCILAB.
12	Plot and Prove FONC, SONC and SOSC condition of a function in SCILAB.
13	Implement Secant Method in SCILAB.
14	Implement Newton Raphson Method in SCILAB.
15	Implement Golden Section Method in SCILAB.
16	Implement Fibonacci Series Method in SCILAB.
17	Solve Quadratic Programming Problem using qp_solve function in Scilab.
18	Solve Non Linear Programming Problem using optim in SCILAB.
19	Implement function for Steepest Descent Method in SCILAB.
20	Implement function for BFGS method in SCILAB.