

SSN COLLEGE OF ENGINEERING, KALAVAKKAM
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
UCS1712 – GRAPHICS AND MULTIMEDIA LAB

Lab Exercise 3 : Bresenham's Line Drawing Algorithm in C++ using OpenGL

3) To plot points that make up the line with endpoints (x_0, y_0) and (x_n, y_n) using Bresenham's line drawing algorithm.

Case 1: +ve slope Left to Right line

Case 2: +ve slope Right to Left line

Case 3: -ve slope Left to Right line

Case 4: -ve slope Right to Left line

Each case has two subdivisions

(i) $|m| \leq 1$ (ii) $|m| > 1$

Note that all four cases of line drawing must be given as test cases.