

SSN COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

UCS1712 – GRAPHICS AND MULTIMEDIA LAB

EX NO: 2a – Drawing 2D Primitives –Line – DDA Algorithm

1. To plot points that make up the line with endpoints (x_0, y_0) and (x_n, y_n) using DDA 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.

Practice question:

2. Replicate the following pattern using DDA algorithm

