1/	
	LAB-2: Bresenham's Line - Drawing Algorithm.
-	The second secon
-	THEORY
-	Bresenham's line algorithm is an accurate and efficient
	line drawing algorithm. It uses only integer anthmetic
	to find the next position to be plotted. The major
	concept of Bresenham's algorithm is to determine the
	nearest pixel position. We calculate the decision
	parameter which decides which pixel to select and which
	function is used for next decision parameter.
	1-3/6C - 3C - 3 - 3P C - 3
-	Left to Right, the slope, slopes.
1.	
10	As Islopel >1, sampling is done in yaxis.
	13 13.0 pc 1 = 2 / 30 10 10 10 10 10 10 10 10 10 10 10 10 10
	CXX, YEPEN TO CXX
	NET TR OF NEW 1
100	YK1 = YK +1.
1	(new Nett .
	a in and at (Mr. un) to be displayed is
-	Assuming the pixel at (nr, yr) to be displayed is determined, we next to decide with pixel to plot in.
-	row yet, our choices are the pixels at positions.
+	row yet, our choices are the prices of
+	row yet, our choices are the pixels at positions.  (NK, YEH) and (NKH, YEH)  At sampling position yet we label horizontal pixel  Separations from the path d, and d2.  The n-co-ordinate on the mathematical at pixel  row yet1 is calculation.
+	At sampling position yet we lave
+	Separations from the path di anouzical at pixel
1	The n-co-ordinate on the mathematic
1	row yet1 is calculation.

For next step.  $P_{k+1} = 2\Delta n y_{k+1} + 2\Delta n - 2C\Delta n - 2\Delta y N_{k+1} - \Delta y$ Subtracting.  $P_{k+1} - P_k = 2\Delta n y_{k+1} + 2\Delta n - 2C\Delta n - 2\Delta y N_{k+1} - \Delta y$   $-2\Delta n y_{k+1} - 2\Delta n + 2\Delta y N_{k+1} - \Delta y$ = 20x (yx+1-yx) - 20y (nx+1-nx) -0

(3)

PK+1 - PK = -20y(2K+1-2K) -20n (4K+1-4K)

pixel co-ordinate is (nx-1, ym)

Pr+1 - Pr = -20y (nr-1-nr) -20n (yr-yr)+1)
Pr+1 = Pr +20y - 20n.

Pr+1 = Pr = -20y (nr-1-nr) - 20xi (yr 3-yr)
Pr+1 = Pr - 2(0y+0x) Pr+20y

luitial decision parameter.

Po = - 2 Dy No + 2 Dy + 2 CDN - 24.0 N - Dn = 2 ( Dy No + CDN ) - 240 DN + 2 Dy - D'n.

= 20n ( Dy 20+ c) -24.0x+20y-0x

= 20nyo-2400n+20y-0n

Scanned with CamScanner



