GOOGLUCK From the

## Assignment No.3

generation algorithm for all quediant.

assumed not equal

Integer to the integer function.

1. J. Ar. Az are assumed integer: e is real initialize

7 = 71

1:11

1x = x2 - x1

17 - 12 - 12

m = 1

03

initialize e to compensate for a nontzero intercept

e-m-1

begin the main loop

tor i=1 to Ax

sclpixel(717)

while (e70)

7=7+1

e = c -1

end while

A = XA

e = e+m

next i

finish.

e) Unite and explain bresenhams integer algorithm for all quadrants Apply the algorithm to find out pix

GOODLUCK PAR values for line L bom (0.0) to (-8.-4) lind ou value of error term for energy pixel ANIAY. > The line endpoints are CXIIID+(x2,12)

Assume not equal. All voriables are assumed integer. The sign functions returns -1,0,1 as its argum

16 less than 0, =0, or >0\_

Initialize variables

2(= 71

 $\Delta x = abs(x_2 - x_1)$ 

17 = abs(12-11)

31 = sign ( 72-71)

52 = sign (12-11)

Interchange Ax & Az depending on the slope of line

> il ADAX then # temp = Dx

> > AX FAZ

Dil = temp

Interchange = 1

else

Interchange = 0

end if

Initialize the error term to compensate for a non-zero intercept

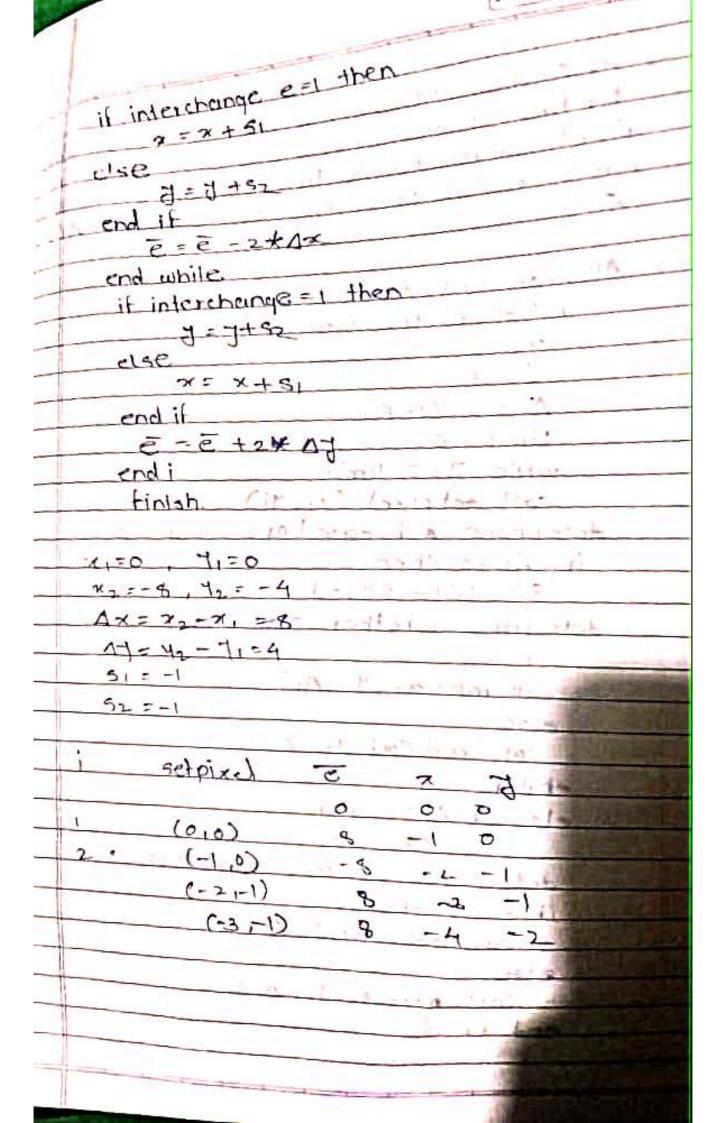
E = 2\* 1 - 1x

main loop

for i=1 to Ax

set pixel (x17)

while (2>0)



a) Will down Brenchoms incremental carte alacans tor first quadrord. Apply the algorithm to rive our pixel values to the first quadrant of circle who circle scalles to 8. find out values of At. 1 un 6. -> All variables assumed integer initialize the variables RIEC

Ji= 6

Ai = 2(1-R)

while tiz limit

call set pixel (ai, 7i)

determine ail case 1012, 4015013 if Diso then

8 = 2Ai + 2Ji-1

determine whether case 1 or 2

\_\_if 8<0

COL it, ix) rim the

else

Call and Cxiting Cia

ehelil

else it Di 20 then

S' = 2 Ai - 2 xi -1

determine whether case 4015

it 6'so then

call md (x1, Ji, A)

0100

Call milaiting 1100

end 11.

sek pixel	Zi.	- 2	31	2 7	
50.27	-1.74	- \$3		0 1	
				2	
C1 4)	- 4			2 8	
Cx 97	- 17			2 7	
(9.3)	-3.			4 7	
(4.7)	-8/	7		5 5	
(4,63		5		6 5	-
10,63	3		-11	7 4	
(7,4)	44		3	1 3	
(10)	15		7	8 2	
19123	17		15	9 1	
(4,13	15		17	8 0	
					-

dehead regions

is seed (xit) is the seed pixel.

Dhish is a function for placing a pixel on stack of Pop in a function for removing a pixel from

Pinel (217) = seed pinel initiate stack

Push pixel (217)

il Pixel (Mit) <> new value then !
Pixel (Mit) = riew value.

endit

should be placed onto the stack.

Picel (24-13) (2) (2000 day 20 18) there

Find (24-13) (2) (2000 day 20 18) there

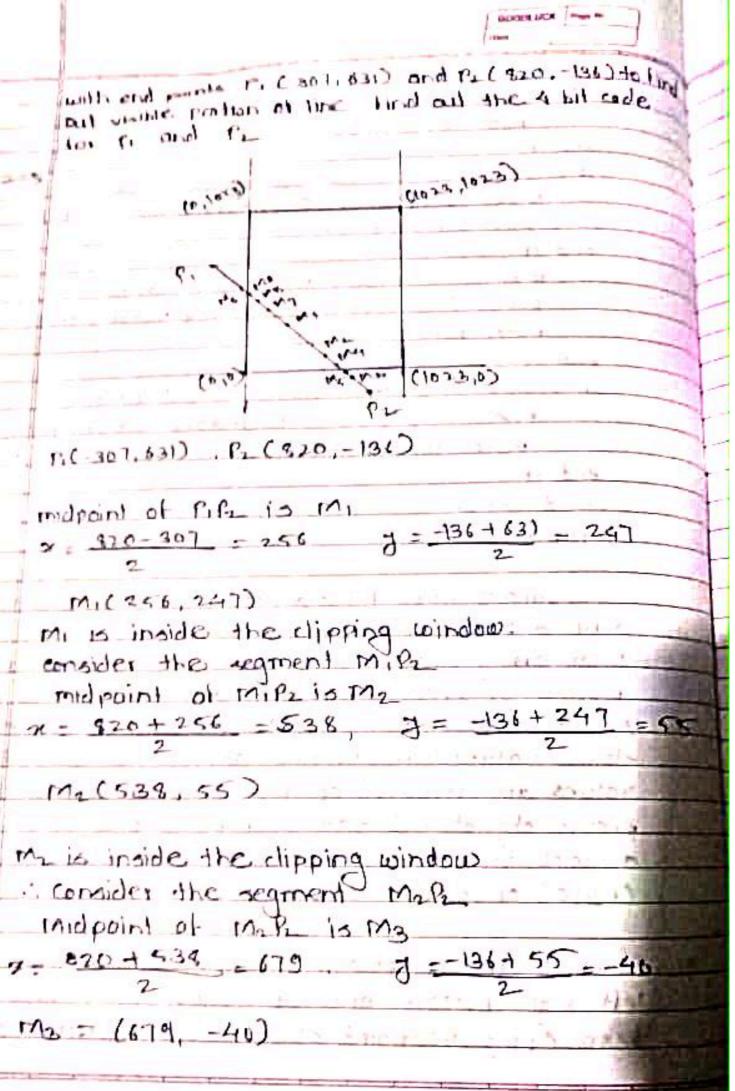
Find (24-13) (2) (2000 day 20 18) there

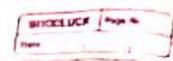
Find (24-13) (2000 day 20 18) there

end (4-13) (2000 day 20 18) there

defined region can be developed using stack stack to an array , into which values are acquentially placed or from which they are acquentially remained the new value pushed onto the stack out provinces about values are pushed down one level As values are remained or papped from the stack previously stored values not up appeal from the stack previously stored values not up are level such a clock is referred to as a first in last out (1310) or push down stack

consider the window in the occeen co-ordinates to have tell sight bottom and top edges of a loss a loss a loss as resp Apply midpoint subdivisions algorithm on line a





me is the midpoint of Maine

Mg (10,415)

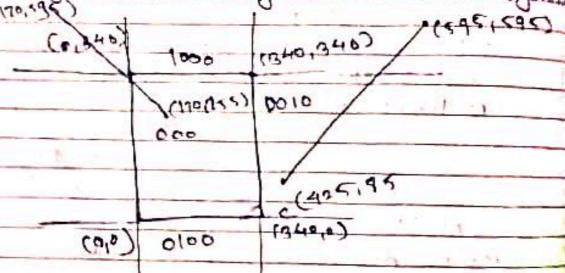
Mg is inside the clipping window.

Yisible portion of line is MgM4

Mg(10,415) M4(103,7)

4-bit code to Pis 0001 & to Pais 0100

Given the clipping window PCD D). \$ (340,0) & s(0,341)
12 (340, 540). Lind out visible postion of life
AB[(-170,595), (170,755)] & cp[(425,85), (595,775)
against given window using cohensutheland algorithm



for line ch: 111

The acquan coaler tor point classes) is caro in

The region code to point p(535,595) is

