Mame :- Page Bisht

Course :- BCA - B (6th sem)

Roll NO: - 1121101 (20)

Paper Name: - Computer Graphics and Animation LAB.

Paper Type :- Regular (land-team Practical)

lemail Id :- poojabisht 031@gmail.com.

Source Code: - (Porogoiam 1). # include (stdio. h) # include (quaphics oh) # include < dos. h> 1703 Files # include (conioch) void floodfill (int u, int y, intold, intnewood) int current; if (current = old) delay (5); putpixel (x, y, new); floodfill(x+1, y, old, new); floodfill (x-1, y, old, new); floodfill (2, y+1, old, new); floodfill(2,4-1, old, new); floodfill(x+1,y+1,old, new); floodfill (x-1,y+1,old, new);

fools

floodfill(x+1,y-1,old, new); floodfill(x-1,y-1,old, new); void main () antgd = DETECT, gm 3 Pnitquaph (lgd, lgm, 66 37); rectangle (50,50,150,150); floodfill (70, 70,0,15)3 getch () 3 closequaph(); floodill as he to eldo were) (wanehila + + pe + + + >) life built

XxX



step 01? - Start.

Step 02? - Initialize the value of speed point (seedx, seedy), fealer and deal.

Step 03? - Check if averent seed point is of default color then repeat the St

step-03: Define the boundary values of the bolygon.

step-04: Check if the current seed point is of default color then suepeat the steps \$5 and 6 till the boundary pixels reached.

if getpixel(x,y) = deal ther repeat Step 5 and 6.

step-05: - Change the defenult color with the ful color at the seed point.

Logo

Stepos?-Recursively follow the percedure with four neighbourhood points. floodfill (seedx - 1, seedy, feel, deal) floodfill (seed x +1, seedy, feel, deal) floodfill (seed x, o seedy - 1, feel, deal) flood fill (seedn, seedy + I , feel, deal) floodfill (seedx-1, seedy+1, fcol, dcol) floodfill (seedx + 1, seedy + 1, feel, deel) floodfill (seed 1+1, seedy-1, feel, dcol) floodfill (seedx -1, seedy-I, feel, deal) add to carrie carried the services Step 07: - Stop.

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SET-B

P3:- RD White An Algorithm and perogram to implement Brescham circle Drawing digarithm.

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Source code :7

inted = DETECT, gm; inter, x, y, p, xc = 320, yc = 240; brintf (66-lenter the radius'); scanf (66% d?, le); initgreaph (lgd, lgm, 66 ?);

y = 90;putpixel (xc + x, yc - y, 1); p = 3 - (2*9); for (x = 0; x = y; x + +) y = 90; y = 90;y = 90

Logia

P = (p+(4+x)+6);equilibries britishment charge p=p+((4*(x-y)+10)); putpixel (xc+x, yc-4,1); putpixel (xc+x, yc-y,2); putpixel (xc+x, yc-y, 3); putpixel (xc+x, yc-y,4); putpixel (xc+x, yc-y,5); putpitel (xc+x, yc-4, 6); putpixel (xc +x, yc-4,7); putpixel (xc+x, yc-4,8); getch(); dosequaph();

- feeler



Breesh Bresenham's Circle Algorithm

Step of : Start 10 110-) July 11

Stepo2: Declare p,q,x,y,or,d variables
p,q are coordinates of the center
of the circle
or is the radius of the Circle.

Step 03: - Enter the value of or.

Step 04: - calculate d = 3-24

Step 05: - Initialize 2=0

Step 06: - check if the whole circle is scan converted if x>= y

step 07: Plot eight points by using concepts of eight-way symmetry. The center is at (p,q). Current active pixel is (x,y).

pulpixel(x+p,y+q).

-fooja

putpixel (y+p, x+q)

putpixel (-y+p, x+q)

putpixel (-x+p,y+q)

putpixel (-x+p,-y+q)

putpixel (-y+p,-x+q)

putpixel (y+p,-x+q)

putpixel (y+p,-x+q)

step 08: - find location of next pixels to be scanned if d < 0then d = d + 4x + 6increment x = x + 1if $d \ge 0$ then d = d + 4(x - y) + 10Increment x = x + 1decrement y = y - 1

Step 09: 40 to step 06. Step 10: Stop.

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