Name-Kanéka Bisht Course - BCA Sem - VI Roll. NO- 1121071 dubpect -> Computer Graphics lab End sem An 1. Bresenham line Drawing Algorithm Algorithm ?-Step 1:- Start A Company of the latter Step 2: Declare a, y, n1, y1, n2, y2, dn, dy, steps, & In float glata type. ottep 3: Declare gm and suffialize gd = Detect + i = 1. Hep 4: Enter soondinates al f y/ of first step 5: Enter coordinates nd fyd of second point. Step 6: Initialize graph by using init graph (Lyd, Lym, "): dep 7: Calculate, dr= 22-21, du= u2-u1 dy = y2 - y1, steps = dn - 1.

mitialize de cision parameter pk = (2 #dy) -dn. Step 9: Initialize p=pk, x=x1, y=y1. Step 10: Repeat step 11 to step 13 while ix=steps Check if p<0, then putpixel (x, y, BLUE); n=2+1; p=1p+(2*dy); change otherwise go to step 12. putpixel (n, y, BLUE); 9=9+1, p=p+ (2+ dy) - (2 +dx); Increment i by one. Step 13: close the guaph Step 14: step 13 Parina

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Code:
#Include < stdio.h>
Void mein ()
   float n,y, n1, y1, n2, y2, dady; steps, p;
  Part 1=1, gd= DETECT, gm;
  perinty ("Enter (n), y):");
   scary (" % f % / ", 221, Ly1);
  points ("Enter (na, ya):");
   scant ("%) %, 222, Ly2);
   initgraph (lgd, lgm),"");
   dn = 22-x1;
   dy = y2-y1;
  Int pk = (2* dy) - dx;
    p'= pk;
   unite (PX = 84eps)
        is (pro,
             pudpixel (2, y, BLUE);

n = x+1; y = y; p = p+ (2*dy);

delay (50);
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else n= x+1; (M, y, BLUE); y = y+1; p=p+(2*dy)-(2*dx); delay (50); 3 ++; 3
getch();
closegraph();

Aw-2. Mide Point Circle Drawing Algorithm Algorithm: dtep1: start Step 2: Initialize gd= DETECT & declare gm: Step3: Declare 4,2,4, p. Instialize centre coordinates re=200 f yc=200. Step 4: Enter radius se. Step 5: Instialize the guaph dtep6: Initialize 2=0, y=4 f calculate hoped estates from the Step 7: Check FOR condition; for (n=0; x<=#; x++) If condition is true, then go to step 9, otherwise goto step 12. Step 9: Check whether p <0, then otherwise y = y + (2 + i) + 1 y = y + 1y = y + 1; p = p + (2*n) - (2*y) + 1;

Step 10; Plot pixels using putpoixel function putpixel (act x, ycty, 7); pulpixel (nety, yetn, 7); putpixel (nc-n, yc+y,7); pretpixel (nc-y, yc+x, 7); putpixel (ne-n, yc-y, 7);
putpixel (ne-n, yc-a, 7); putpixel (xc+n, yc-y, 7); putpinel (xc+y, yc-x, 7); Go to step 7 Step 12: Close the geaph Step 13: Stop

Panika

Code: -# include <stdio. h> < geraphics . h> # include Put main () int gd = DETECT, gm; int de, 7,9, p, 2c=200, yc=200; print ("Enter readieus :"); second (" % d", & H); initgraph (bgd, bgm, "); for (n=0; n<=y; " (p<0-8=4; (2***)+1; y = y - 1; p = p + (2 * y 2) - (2 * y) + 1;

putpixel (nc+n, yc+y,7); putpixel (nc + y, yc+n, 7); putpinel (nc-x3, yc+y, 7), putpixel (2c-y, yc+2,7); putpirel (ne-x, yc y,7); putpixel (2c-y, yc-2, 7); putpixel (nc+n, yc-g,7); putpixel (nc+y, yc-x, 7); getch (); closegraph();

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