Name: Komal Torwal
University Roll No: 1121074
Course: BLA Semester: 6th
Paper Name: Computer GRAPHICS
Paper Cade: # PBC 602

Somdopod

Breschham Line Drawing Algorithm. Steps: - Start Step 2 :- Declare, x, y, x, y, x, y, dx, dy, step, p & as
flood freegon type. Step3:- Declare gm and eniffalire gd = DETECT & P=1 Itep4: Enter coordinates of first point for variable. Steps: Enter coordinates of second point for voulable 3+ept: Initialize graph by using mitgraph (2gd, 2gm," 1). Step7: Calculate, dr=x2-x1; dy = 42-41; Steps = dz-1; Step 8: - Inittalize decision parameter PR = (2 + dy) -dz Step 9: - Inéttalire p=pR, x= x1, y=y1 Repeat Step 11 to step 13 while Px = steps step 10: Check of pro, then Stepii: pupixed (r,y, & WHITE) 7=7(+10) P= P+ (2\*dy);

Otherwise go to step 12

Step 12: - putpixel (2, y, WMITE)  $\chi = \chi + 1;$   $\gamma = \gamma + 1;$   $\gamma = \gamma + 1;$   $\gamma = \gamma + (3 * dq) - (3 * d\chi);$ Step 13: - Increment & by Dne &

Step 14: - Close the graph

Step 15: - Stop

Smagnod

```
# Include ( graphics. h>
void main ()
  fload x, y, 2, y, x2, y2, dx, dy, steps, P;
   Port 9 = 1, gd = DETECT, gm;
   printy (" Enter (21, y1):");
   Scarf (" off " , & 711 , & 71);
   privil ("Enter (22, 42):");
   Scanf (" % of % of", & x2, hy2);
   instgraph ( lagd, lagm, ");
    dr = 22 - 21;
    dy = y2 - y1;
    Steps = dx-1;
     9 ml pr = (2*dy)-dz;
     P= pr;
     2=21;
     4=41;
     while (PL = steps)
       if (6<0)
           pubpixel (r, y, ) WHITE);
             P= P+ (2* dy);
             delay (50);
                                              male pread
```

2021/6/16 10:25

clse

pulpixel (x, y, & WHITE);

2=2+1;

y=y+1;

p=p+(2+dy)-(3+dx);

delay (50);

3

i++;

getch();

close closegraph();

Indopwal

Med point eircle drawing Algorithm

Steps: - Start

Step 2: Instialize gd = DETECT and declare gm;

Stepy: Declare 8,2,4, Po and Installine

rc= 200 , yc= 200;

Steps: - Enter the radius for circle as r,

3+ep6: Initialize graph by using inlignap (2, gd, 2gm," "),

Step7: 1 Ineffalire, 76=0

and calculate P= 1-r

Steple: Inittalize 100 to 2, check it 2 is dess than or equal to y end increment ?

Grepq :- Chack

Intralize 0 to 2, repeat Step 9 to Step 12 Pf 2c Ps less than or equal to y , and Step 9 :-Increment 2 by one.

Check P is less than O, Step 9:

et exectorise

It step 9 9strue, Step 10:

P= P+ (3 \* x) +1

If step 9 is false Step 11 :

4=4-1 P= P+(2\*10)-(2+y)+1;

Tomespead

Step 12: Plot pixels using pulpixel

putpixel (2c+x, yc+y, 7);

putpixel (xc+y, yc+z, 7);

putpixel (xc-x, yc+y, 7);

putpixel (xc-y, yc+x, 7);

putpixel (xc-x, yc-y, 7);

putpixel (xc-y, yc-x, 7);

putpixel (xc-y, yc-x, 7);

putpixel (xc+x, yc-y, 7);

putpixel (xc+x, yc-y, 7);

Step13: Close theo graph.

Stepin: Stop

Sondpud

```
#Proclude < std80.47
# Include < graphics. h>
Int maln ()
Int gd = DETECT, gm;
  Put 8, 2, 4, 1, xc = 200, 1 yc = 200;
   Prints ("Enter radeus");
   scanj ("6 % od", & r);
   intgraph ( sgd, sgm," ");
    n=0',
     for ( x=0; x <= y; x ++)
        Pf (pKO)
          P=P+(2*x)+1;
         else
             P= P+ (2*x)- (2*y)+1;
        putpixel (2C+7, yc+y, 7);
        pulpixel (xc+y, yc+x, 7);
        pulpixel (2c-7, yety,7);
        pulpexel (xc-y, yc+x, 7);
```

for at prod

putplixed (2c-2, ye-y, 7);

putplixed (2c-2, ye-2, 7);

putplixed (2c+2, ye-y, 7);

putplixed (2c+y, ye-2, 7);

getch();

closegraph();

return 0;

Imagnisol