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2 Ams

SOURCE CODE:

include (Stalio. h > # include < graphics. h> void drawcircle (int Xo, intyo, int radius) { first x = radius; int y = 0; interr = 0; While (x>=y) Putpixed (x0+x, y0+y, 7); potpixel (xo+y, yo+n, 7); Putpinel (xo+4) yo+n, 7); Putpixel (xo+ x, yo+y, 7); Putpixel (Xo+ X, 40-4, 7); Putpixel (No + y, yo -x, 7); Putpixel (Not y, you -x, 7); putpixel (xo+x, yo+-y) 7);

(exx <=0)

```
{ y+=1;
en+= 2 *y+1;
If (001 >0)
  \begin{cases} x - = 1 \\ err - = 2 \times x + 1 \end{cases}
  int main ()
     int gariver = DETECT, gmode, estor, x, y, y)
      Printf ("Enter radius of Circle: ");
      Scarry ("1.d", & x);
       printf (" Enter 6-ordinates of Center
            (x and y): ");
         Scart (" 1.d 1.d", (x, 4y);
        initgraph (4 gdriver, 4 gmode, "");
         draworde (x,y, r);
           delay (999999);
          return 0;
```

Algorithm -Procedure aven -· Centre Point of Circle = (Xo, yo) · Padius of lircle = R Assign the Stootting Point Coordinates (Xo140) as 0 = 0 K . · yo = R atep2 - Calculate the value of initial decision Parameter Po as -Po = 1-R Step3 - Suppose point if (XK, YK) and the next Polvet (X K+1) Yk+1). find next point of the first octant depending on the value of decision parameter PK, Follow the below two cases: 1/KH=1/K+1 >(are-0)

Follow the below two cases:

Two Cases |x| = |

Atep 4 : If the given centre Point (xo, yo) is not (0,0)
then do the Jollowing and poot the
Point

- * Xplot = Xc+Xo
- · Yplot = Yc+Yo

Here, (XC, YC) denotes the coverent value of xand y Coordinates.

Step 5:- Keep one peating Step -03 and Step -04

Until X plot > = Y plot

Step 6: - Step-05 generates all the Point for on octant.

To find the Point Jor other seven octants, Jallow the eight symmetric property of Circle,



