Name > Nixuil Rastogi Coughe > BCA VI+h sem Roll no > 11 (1121091) section BD B

Bresenhan's Circle Algorithmich

Step 1: Start Algorithm

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Step 2: Delare P,9, x, Y, r, d Variables P,9 are coordi--hates of the contex of the circle or is the gadiux of

Step 3: Enter the value of gc.

Step: 4: calculate d=3-28-

Steps: initialize x=0 and nbsy=x:

Step 6: Check if the whole circle is say converted check Whether of lesp then equal to 2 am stop.

Step 7: Plot eight points by waing concepts of eight way symmetry, The center is at (P,q). Consent active pixel· ix (x,y)

Putpinel (2+P, y+2) Putpine ( Ly+P, 2+P) Putpiael (-ytp, y+2) Putpinel (-2+1, 9+9) Putpiacel (-2+P, Ty+2) PU+pixel (- 7+4p)-2+9) Potpiael (y+p - x+2)

Rutpinel (24) Putpinel (24) -7+9

thep 8:- Find location of Next pixels to be scanned check whether d<0,

then addition of d, 14, 6 arrign to d.

increment in x by 1.

then calculate d+4(2-y)+10 and appign

decrement ity in y by 1

step 9: no to step 6.

btep 10: 8top algorithm

Porogram !-

#includec graphics.n>
#includec & this.n>
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#includec & this.n>
#includec mather

Void : Eightwaysymmetric Plot (int xc, int yc, inty)

Putpixel (x + xc, -y+yc, RED);

Putpixel (x + xc, -y+yc, YELLOW);

Putpixel (-x + xc, -y+yc, GREEN);

Putpixel (-x+xc, y+yc, YELLOW);

Putpixel (y+xc, x+yc, 12);

Putpixel (y+xc, y+yc), 14);

Nikhit

```
putpiael (-y+ac, -a+yl, 15).
Putpinel(-y+nc, k+gc, 6)
Void BreschamCricle (int nc, int ye, out se)
 int n=0, y=8, d=3 d=3-(2+8);
 Eightwaysymmetoric Plot (24 y 4);
                      Correct States of Lucis
 While (ne=y)
    if(d(=0)
    d = d+(4+2)+6;
                            Carter My Lucy
 3 else q
    d=d+(4xx)-(4+y)+(0).
  9=4+1 y=y-1
                                 El the sail of
   スニスナリ
   Eight Ways & metric Plot (ne, y 4, 4, 4)
 int main (vola)
 lut maine
} int Ac, ye, or, gdriver = DETELT, gmode, error code;
   initgraph (Egdriver, & gmode, Heitt 114);
   ennancode= graphrepultu;
```

NIXLE

iflersoneode!=gnok) Printfl" Graphice correr: 1. Birn"; grapherormige getche); enit (1); Printfl" Enter the value of ne and spe sconf [" 7-27.2", & xc, +yc) Printf(" Enter the value of radiop: & cauf (11-1-d", 88); Brefennancircle(21, y1, 0); getal); Closegreph (); Niknit

