NAME = PANIAN PANIST ROLL no = ) 17 UN Roll no = ) 112 10 98 SUB & Computer Graphics SON Course = ) B (A TT # include < graphice. h)

# include a stalib . h>

# include 2 Stdio . h>

# include / conio.n)

# include < math. h >

void EignewaysymmetricPlot Cintxc, intycindx, inj

putpixel (x+xc, y+yc, RED);

putpixel (x+xc, y+yc, YELLOW);

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

putpixel (-x+xc, y+yx, YELLOW);

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

putpixel (y+xc, -x+yc, 14);

putpixel (-y+xc, -x+yc, 14);

putpixel (-y+xc, -x+yc, 15);

Void Bore enhan Gode (int x c, inty c, into)

9, int x = 0, y = 8, d = 3 - (2\* 8); cig nt way symmetrically (21, y 0 1 x 19);

foreer

```
While (nz=y)
9 14 (dz=0)
 d=d+ (4*x)+6;
 Plep
& d= a+ (u*x)-(4xy) +10;
   4= 4-1)
  X= 21+7;
 EightwaysymmetricPlot (>1() y()x) y);
  i'nt main (vold)
   int MI, yc, or, glouves = DETECT, gmo de, esococo de;
  l'whigoaph (Idoive Igmode, "(: \ TURBO(311841");
  esous 86 de = graph revelt ();
 14 ( esus or code! = g = OK)
  9 pointy ("6 Goaphi'es easer ": "/. sln", goapheaserneg
                                         (esoco (de));
  point (16 poses any key to halt!")
  getch();
```

Portuly 1;

borinely (" futer the value of xc and yc:");

Scanf (" 4. d 1. d 11, lxc, llyc);

portuly (" futer the value of value:");

@ sand (16 y. d'1, 20),

Boerenham Circle (x (,y (, v);
getch ();
Closegraph ();
resurn o;
2

facien

Breeenham's Civile Algorithm

STEP 1 = Stout Algorith

Step 2 = Declare P.E. x, y, x, d variable

P, 2 are coordinates of the center

of the livelle of the the radial of the circle

STOP 30: Enden que value of 8

STAY: Carlulate d= 3-20

STEPS: intralize x=0 & nbey=8

step6 = check if the whole circle is lean convended if x>=y

Stop

STEP 7 = P6+ eight pointe by wing concepts
of eight way aymmetry, The onser
is at (P, 2), current active pixels 14
(x.4)

purposed by

put pixel (21th, 4t2)

put pixel (4th, xt2)

putpixel (-4th, xt2)

putpixel (-xth, 9t2)

putpixel (-xth, 9t2)

put pixel (-ytp, -x+2) butpixel (gtp, -x+2) putpixed (x+p, -y-2) Step 8: Find Cocation of next pixels to be scanned 14 d c0 then d= at 4x+6 in our ent x = x+1 14 d ≥ 0 then d = 4+ 4 (x-y) +10 in wement n= n+1

decrement y = y-4

Step 9: Go to Step 6

Step 10: Stop Algorith.

· farcials

\*\*\* Mid-Point Subdivision algorithm of circle \*\*\*

Enter the value of Xc 400

Enter the value of Yc 140

Enter the Radius of circle

97

