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Roll No-1121163 (48)
Name-Viblu Negi
                       Course-BCA 6C
Paper Code → TB C-602
Poog ram
   # include < Stdio.h >
                              195 (CX) was besighing
   int main() graphics.h)
     () main ()
     I int oou ( Cloat num)
      return num < 0 ? num - 0.5: num + 0.5;
      int x1 = 100, x2 = 300, y1 = 100, y2 = 200;
      int gd = DETECT,gm;
      Float pk/pkk, x, y; stepi, ix eldolow ecolor e goto
      int dy = y2-y 1,
        PK = 27 dx-dy
       if (dx>dy)
        Step = dx;
        Step = dy i
        step = dy, unitgraph (lgd, lgm, ");
        outrextxy (x1, y1, "A"), 13 de destes
        outtextxy (x2, y2, "B"); as ( ) sobjects
        ig (pk <0)
              pkk = pk + 2+ dy i-
```

TEST TO A THE SPACE son of readings. pkk = pk + 2\* dy - 2\*dy; pulpixel (sou (x), sou (y), WHITE); Step -- i getch (); he oder Child mum. setien 0; mile of the state Hlogrithm Step 1: Start Algorithm Step 2: Declare variable  $\times 1, \times 2, y 1, d, i1, i2, dx, dy$ Step 3: Enter Value of  $\times 1, y 1, \times 2, y 2$  where  $\times 1, y 1$  are Coordinates of starting point And x2, y2 are coordinates of ending paint Step4: Calculate dx=x2-x1 calculate dy = y2-y1 Calculate il = 12 + dy Calculate i2 = 2\* (dy-dx)
Calculate d=i1-dx Steps: Consider (x,y) as starting point and xendas maximum possible value of x Them x=x2+ > stable)  $y = y^2$  xend = x1I dx . >0  $y=y^{1}$  xend =  $x^{2}$ 

Step 6: Generate point at (x,y) coordinates Step 7: Check by Whole live is generated

If x> = xend Stop.

Step8: Calculate co-ordinates of the next pixel

Jd<0
Then d=d+i1

Jd≥0

Then d = d + i2

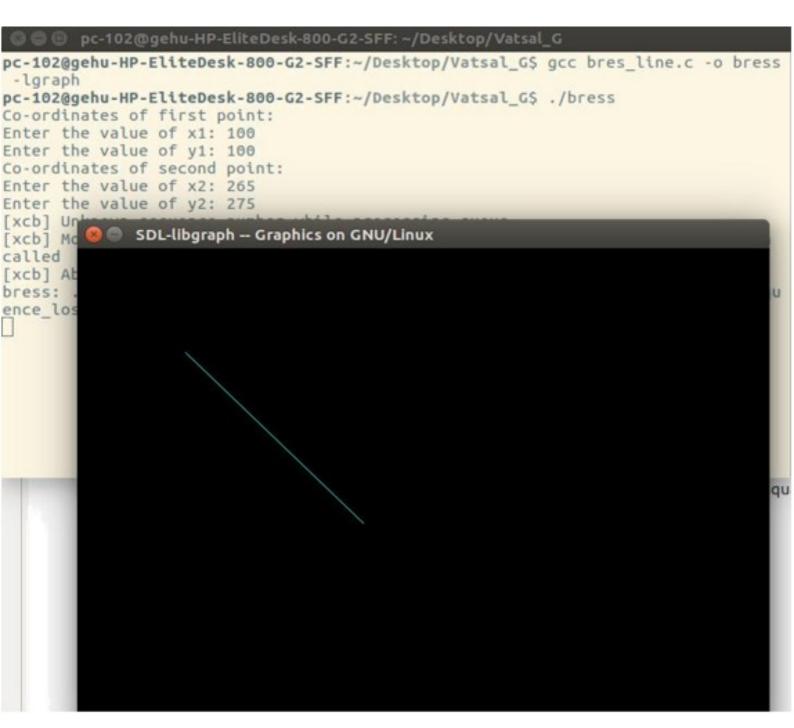
Increment y = y + 1

Step 9: Increment x = x+1

Step 10: Draw a point of latest (x, y) coordinates

Step 11: go to step 7

Step 12: end of Algorithm



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Aus 2
=#include <Stdio. h>
     # include < graphics. h>
      uoid drawcircle (int x0, int y0, int radius)
                 int x = radius,
                 inty = 0;
                 into - the this
                 while (x>=y)
                      putpixel (x0+x,y0+y,7);
                      putpixel (XO+y, yO+x, 7);
putpixel (XO-y, yO+x, 7);
putpixel (XO-x, yO+y, 7);
                      pulpixel (x0-x, y0+y, 7),
pulpixel (x0-x, y0-y, 7);
pulpixel (x0-y, y0-x, 7);
                       pulpixel (x0+y, y0-x,7);
                    pulpixel(x0+x/y0-y,7),
                       if (en<=0)
                              en + = 2*y+1;
        mini if (en > 0)
                           ex = 2*x+1;
```

0

y
int main ()

int gdriver= DETECT, mode, error, x, y, r;

print f(" Enter radius of circle:");

Scan f (" % od", Lr);

Print f (" Enter co-ordinates of center (x andy):");

Scan f (" % od% od", Lx, Ly);

initgraph (2 gdriver, 2 gmode, "");

draweir de (x, y, r);

delay (999999);

return 0;

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Algorithm \_\_

in their all illustrations

Step 1: Assign the starting point coordinates (X0, Y0) as-

• X0 = 0

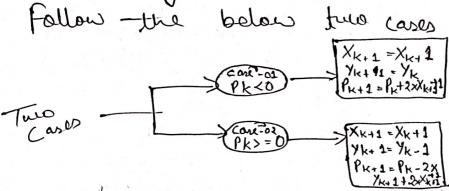
· 70 = R

Step2: Calculate—the Value of initial decesion parameter lo aslo=1-R

Suppose the Current point is (XK, YK) and the next point is (XK+1, YK+1)

ignationally rough

find-the next point of the first actant depending on the Value of decesion parameter Pix



Step-4

In the given centre point (xo, yo) is not (0,0), then do the following and plat the point · X plot = Xc +Xo

· > > plat = Yc + Yo

Here, (Xc, Yc) denotes the current value of X and Y Coordinates.

Keep repeating Step-03 and Step-04 until Xplot)=

Step 6: generates all the points for one octant To find the points for other seven octants, Jollon the eight symmetry property of Circle

