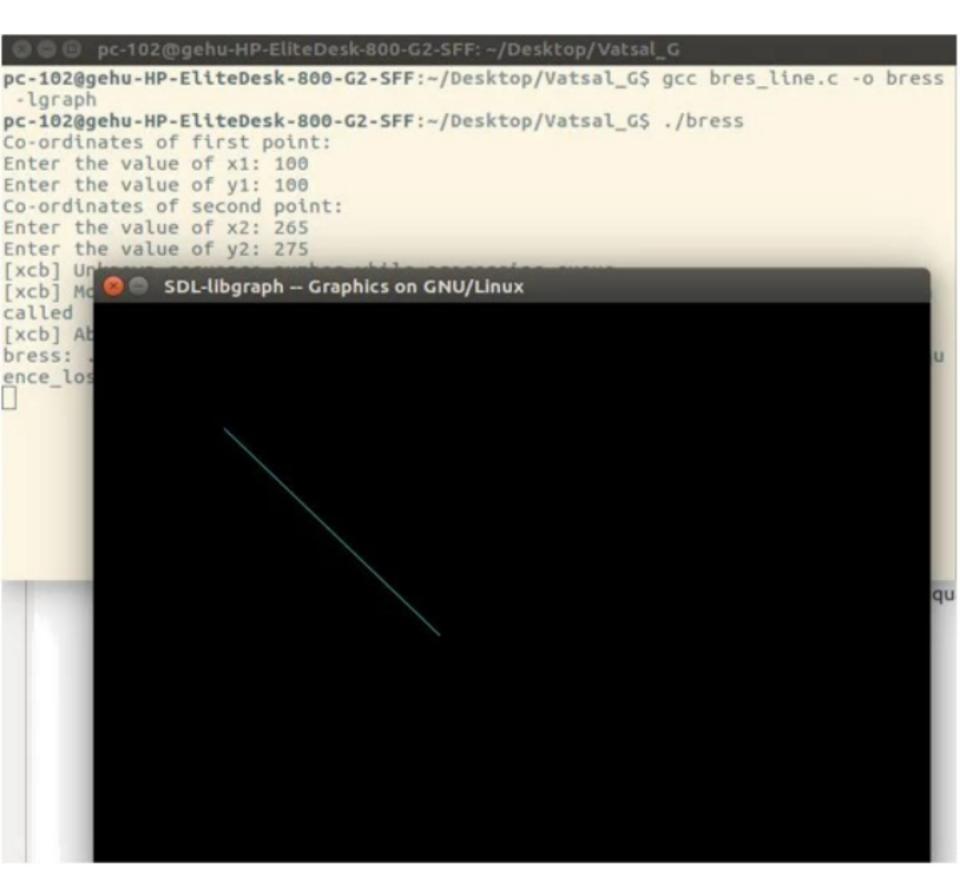
```
romme: - BCH, CC,
Name: - Himanhu Gurain
                              Subject: Computer Graphics
RODD no .: - 05
1001: - Bresenham's line drawing algorithm: I
              # include < stelio.h>
              # Endude < graphics. h)
                and main ()
                  ( mun tood) ware the
                votur rum < 0? num - 0.5: num +0.5;
              int x1=100, x2=300, 1,=100, 15= 500;
               74 Sy = DEJECT & DW !
               Front pk, pkk, x, y, step;
               Int dx =>2-x1;
               but dy = >2->1;
               px = 2+ dx - dy;
                if (dx > dy)
                 step = dr;
                 also
                 Step = dy;
                 of initgraph ( & 3rd, be 3m, "");
                     outoxby (x1, 11, "A");
                     attentry (x2, 72, "8");
                     putposel(x1, Y1, WHITE);
                       X=X1, Y=Y1;
                      while (step) ()
                       78 (bx <0)
```

```
bxx= bx + 5x day;
              el vo
              pxx= px+ 2 x dy- 2x dy;
               344)
               pudpirel (soul ), soul ), MUITE);
                xxx;
               Step - - i
                   nature 0;
Algorithm: I
 Step I: - Stood Algorishm
 Step 2: Declare variable x1, x2, 72, 42, d, i7, i2, dx, dy
 Step 3: Enter vols of X1, 41, X2, Y2
        where x1, Y1 are essentiated and starting paint
        And x2, 42 your accordinates of ending point
 Stepy: - coccede dx = x2-x1
         colocate dy = 42 - 71
           chalculate "I = 2 or dy
            walcounte 12 = 27 (dy - dx)
            ab-Ii = b stoluston
Step 5: - consider (x,4) can desting paid and souder maximum parible when i
                     The gr < 0
                         Then x=x2
                          4=42
                          xerd = XI
                          if gr >0
       State: Generate point at (x,y) coordinates
       Stept: crock of whole dire in governted.
                       If x>= xend
                            Stop.
```

Step8: - colorato co-ordinates as the rest pixel if dco Then d= d+ 12 il 950 Than d= dtiz 1 ty = y tramorani Step 9: - Increment x = x +1 Signor Draw a paint of Dotat (x,y) condicates Step 11: - Go to step 7 Step 123 - End of Algorithm.

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Name: Himanhu Gurain Some: - BCA GC! Subject: - Computer Gyraphics RODO no :- 05 I. minder horasson about sincle deroration against .- i 290 # Snowde < stdio. h> # include < graphier. h) vaid drawdrole (it xo, it odies) i miboe =x bil 10=01 int au =0; will (x>=y) putpice (xotx, Yoty, 7); (15,x +0 x, x +. 0x) sorighing putpled (xo-Y, Yota, 7); brothers (x0-x) x0+x15); Proposed (x0-x, x0-x, 7); [161x-08/xot xot x, 40-x 12]; (f, y-ox, xo-y); \$ ( en <=0) 78 (ou so)

( rion by ent grimer = DETECT, gode, over, > 17, 1; print(" Enton rodius of circle: "1;" Scout (" 1.d", ben); print(" anter co-ordinate of center(x and y ): "); scont ( " / d 1 d", bx , bx); initgraph ( & grimer, & greade, " 1); domicirale (x, y, x); ( ECC 6 660 / hope votura 0; Dogostim : I Step 2: Awign the starting point coordinates (x01,0) w: 3 Steps: colculate the value of datal deciner parameter to as: 2 60 = 1 - B Steps:- Suppore the current paint in (xx, 4x) and the next Paint is (XK+1, YK+1) find the nextpoint of the first octant defending on the value of decision parameter PK XK+1 = XK+H1 YICHI = YK PKCO TURE CONSI X-21=XEA1 20 mos 1EN 1= 7E-1 PK)=0 Stepris In the given coston point (xo, yo) in not (0,0), then do the possessing and plat the point · xpict = xc+Xo · y plot = yet yo too, (xc, 1/c) tootes the current value of x and > coordrates

Step 5: - Keep repeating step 03 and step 04 unit

Stepe: - Governator call the points for one actual to find the points for other reven actual, follow the eight rymmetry property of circle.

