Nome: - Jukul Baloni Course: - BCA'6' Sec-C RollNo: - 1121085 (23) Sobjed: - Computer Goraphic. Date: - 16/06/2021 Stodid: - 18211293

And Boresenham's Line Algorith!

Stepl: - Start Algoritm

Stepl: - Declare variable x1, y1, x2, x2, d, ix, i2, d1, dy.

Step 3: - Enton value of XI, YI, X2, Y2

where XI, YI one coordinates of starting point

And X2, X2 are Coordinates of Ending point.

Step4:- Calculate  $dx = y_2 - x_1$ Calculate  $dy = y_2 - y_1$ Calculate  $dy = y_2 - y_1$ Calculate  $ix = x^*dy$ Calculate  $ix = x^*dy$ Calculate  $ix = x^*dy$ Calculate  $ix = x^*dy$ 

Steps:- Consider (x, y) as stanting point and and and and and and and maximum punible value of x

if dx20 Jhon x = 42 y = 42

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Xand = XI H dx70 Jhon x=x1 4= 41 X and = X2

Steph: Generale Point at (M,y) Coordinates Chark if whole line is generated Steptiif x7 = x crd Stop

Step8: Cabulate co-ordinates of the next pixel. N dro Jhon d=d+ix H d20 Jhon d=d+i2 morand y=g+1 10 mulli

In cremet of = M+1

Step 9: Draw a point of latest CM, 4) Coordinates Stap10:

Go to Step 7 Sty11:-

and of Algorithm. Step 12: -

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Program
#indude 2 Stdio. h7
# ivelude 2 graphic.h7
 void drawline Lind xo, ind yo, ind x1, ind y1)
     int d1, dy, P, x, y;
     du= x1 - x0')
     29=91-905
      X = X0)
                      Value January
      9 - 40;
      P = 2* dy -dv;
      while (XXXI)
         if (P7=0)
          Put pixel (x, y, 7);
          y= 9+1>
           P= P+2+dy-2*dn's
        che
           Putpixu (M, y, T);
             x = x+1)
```

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