Name - Vaibhar Khati University Roll. No. - 1121158 Clay Roll. No. - 43 Subject - Computer Graphics Lab Subject Code - PBC 602 Section - C Set-C (P1=) Algorithm Step1: - Start Step 2: - Input two end points (xo, yo) and (4,71). Step 3 :- Calculate dx, dy and slope m Step 4: - If on < 1 then initial parameter, PK = 2dy -dx Otherwise 200 2 Ax - Any print slope not ley than I. Step 5:- If Pk >0 then Knew = Xold +1 ynew = Yold of 1  $P_{K+1} = P_{K} + 2 dy - 2 dx$ If PK <0 than , xnew=xold+1, Ynew=y and Peti= Pk+2dy. Step 6 :- Step S will continue until number of iteration i become greater than dx.

Step 7: - stop.

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Source Code :-
    #indude <stdio.h>
    #include < graphics. h>
int main () §
   intixo, yo, x1, y1, dx, dy, P, x, y;
   printf (" Enter first end point :");
    sconf (" xd xd", & xo, & yo);
   prints (" Enter second end point :");
    scont ("xd xd", &x, &x2);
   int gd = DETECT, gm;
    init graph (legd, legm, "");
         dx= x, - xo;
          dy = y, - yo;
           x = x0;
            y = yo ;
        float m = dyldx;
          if (m < 1)
             p = 2 * dy - dx ;
        i = 1; (" Slope net law than 1");
        while ( i z = dx)
             putpixel (x, y, CYAN);
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if (b>=0)
  x=x+1;
   y=y+1;
   p=p+2*dy-2*dx;
   3
 if ( p < 0)
     x=x+1)
      p = p+2*dy;
   delay (50);
 getch ();
closegraph();
```