(Cr(lab) Shaniya Chawhan BCA VI'C' 1121176 PBC-602 BRESENHAM LINE DRAWING ALGORITHM # include < graphics. h>

KPDP

Thaniya Chauhan BCA-TT'() 1121176 RBC-602 putpixel (x, y, BLUE); y=y+1; p=p+(2*dy)-(2*dx) delay (50); (bregraph (); ALGORITHM > Step 1: Start. Step 2: Dedore variable x1, x2, y1, y2, d, i, iz, dx, dy; step? Enter value of x, y, xz, yz where x, y, are coordinates of starting point and xz, yz are co-ordinates of ending point. Stop 4: Calculate dx = x2-x Calculate i= 2 * dy Colculate is = 2 * (dy-dx) and d= di-dx Steps. Consider (x,y) as starting point and xend as maximum possible value of x. if dx<0, then x=x2. **KPDP**

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If dx >0, Then x=x) 4=41, 1 end= x2. Step 7 -> Check if whole line is generated.

If x> xend Stop8 = Calculate co-ordinates of the next pixel. then d = d + 11 $I(a \ge 0)$, then d = d + ieIncrement y= y+1 tep 10 => Drow a point of latest (x,y) coordinates

tep 11 => (ro to step 7. Step 9 => Ingrement x = x+1 Step 12 => End of Algorithm.



Shariya Charhan PBC-602 # 112176 BCAVIC 02 Source Codo # include <stdio.h> # include = graphics. h> y=y; P=P+(2*x)+1; **KPDP**

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RCA VI - CY Shaniya Chanhan PBC-602 112/176 putpixel (xc-y, yc-x, 7); putpixel (xc+x, yc-y, 7); putpixel (xc+y, yc-x, 7); getch (); desegraph ();
return 0; ALGORITHM Step 2 => Allot the centre coordinates (po, go) as Step 3 => Now, calculate the initial decision parameter Stepy -> Assume the starting co-ordinates (pk, 9k)
The next co-ordinates will be (from 19k+1).

Find the next point of first ordent according to Step 5 => follow there 2 cores -Carel: If duco, then Care 2: If dx>=0, the $\frac{1}{1+1} = \frac{1}{1+1} = \frac{1}$ dk+1= dk+2/k+1+1 Step 6: If center not (0,0) points will be X Coordinate = Xc + po Step 7: Repeat Atep 5 & Cutil x>= y

KPDP Step 8: Step



