```
lame. Toinatra Joshi
                                 Rollno, 1121177
ourso, BCAGC
                                 siz. djoshi
                                                  Set - C
1. Bresenham Line Drawing Algorithm
Also
Step 1. Start
Stap 2. Declare required variable x1, x2, 41,421 11,12 ) d, dx, dy
 Step 3. Assign values to x1, x2, y1, y2
 Stap 4, Calculate dx = x2-x1
         Calculate dy = 42-41
          calculate i1 = 2 + dy
          calculate 12 = 2x(dy-dx)
          Calculate d = i1-dx
  Step 5. Consider (xx y) as Standing points and x and as maximum
         value possible for x
         If dx <0
       Then Assign a = 22
             4= 42
              Xend = XI
          If dx >0
            Than x=x1
                 4=41
                  Y end= oc2
   Step 6: Grenerate (X14)
            check if Generation is complete
            If x > = x end
            than Stop
   Step8: Calculate: If doo: d=d+1L; It d=d+12: y++
    Step 9:
           x++
     Staplo: Draw new values of (X/Y)
     Stapll: Go to Stap 7
```

Stap12: Stop

```
Rollno, 1121177
Name, Trinatra Joshi
                                                 Set - C
                                       sig. dioghi
Conose, BCAGC
    Brosenhom LDA code
  # include < stdlo, h)
  # include < graphics. h >
    void draw Lintro, int yo, int x1, inty)
    E Int day, dyipia,y
         dx = x1-x0)
         dy = 41-40;
          or = xo
           Y = 40
           P= 2*(dy) - dwi
        while C or L x1)
        & if Cp>=0) &
              putpixel Cx, Y/7);
               ソニケナリ
               P=P+2+dy -2+dx1
            alse $
                   put pixel (x)4,7)
                   P=P+2+dy)
                   ルニハナノ
      in+ main () &
        int dd = DETECT, Sm, ar, Mo, 90, X1, YI)
        initgraph ( & sd ) & sm, "C: " Programs W Turbo (31/6;1");
        point f (" Enter coordinates of first point ");
        scant (" 1, dy, d, 4 x0, 4,0)
        printf (" Enter final point coordinates");
        Scanf L"xdxd, & x1, & y1)
        draw (x0,40,x1,41)
        return 0 /
```

2