```
Name: Dellashrer Maharjan
Course: BCA Sem: 6th Sec: A
Uniursity Rouro: 1121041 (38)
Answers:
   *include (graphics.h)
   #include L'conio.h>
  #include (stolio. h)
   uoid main()
     int gd = DETECT, gm, i;
    float n, y, dn, dy, steps;
     int 20, 21, 40, 41;
     initgraph (2gd, 2gm, "C: 117011 BG1");
    set bkcolor (WHITE);
    no, = 100, yo = 200, xi = 500, y1 = 300;
    dn = (float) (n1-20);
    dy = (float) (y1 - y0);
     if (dx > = dy)
       steps = dn;
     else
     ¿ steps = dy;
     dn = dn / steps;
     dy = dy /steps;
      n= no;
```

Algorithm - DDA line drawing algorithm.

Steps: Start Algorithm

Step2: Declare 21, y1, 22, y2, d7, dy, 1, y, as integer variables.

Step3: Enter value of n1, y1, n2, y2.

Step4: Calculate dn = n2-n1.

Step5: Calculate dy= y2-y1

Step 6: If ABS(dn) > ABS (dy)
Then step = abs (dn)
Else

Step 7:  $\pi$ inc =  $\frac{1}{2}$  / step Yinc =  $\frac{1}{2}$  / step axign  $\pi = \pi 1$ axign  $\pi = 41$ 

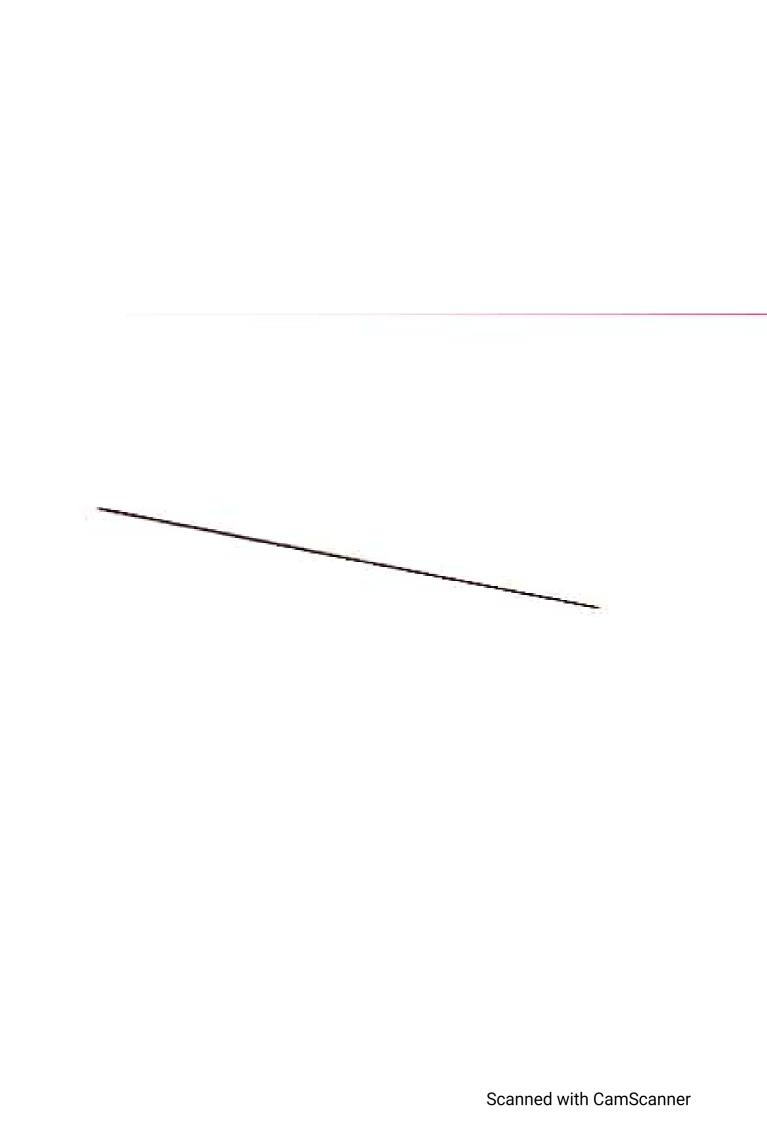
step8: set pixel (x,y)

Step 9: n = n + xinc y = y + yinc Set pixels (Round (n), Round (y))

Step 10: Repeat step 9 until x = x2

Step 11: End Algorithm.

Acuashry



Name: Revaehree Maharjan Course: BCA Sem: 6th Sec: A University Rouno: 1121041 (38) Annoers: Traffic light Animation -#include (graphics.h) int mains int gd = DETECT, gm; initgraph (xgd, xgm, "NULL"); 1 ROAD\*1 line (0, 200, getmaxx(), 200); line (0,360, getmaxx (),360); /\* Zebra Crossing\*) setcolor (WHITE); rectangle (150, 210, 260, 230); floodfill (152, 220, WHITE); rectangle (150, 240, 260, 260); floodfill (152, 241, WHITE); rectangle (150, 270, 260, 290); floodfill (152, 271, WHITE); rectangle (150, 300, 260, 320); \$1000\$iu (152,301, WHITE); rettangle (150, 330, 260, 350); flood fill (152, 331, WHITE);

```
1x Traffic Light x/
 Setcolor (WHITE);
 rectangle (140, 200, 145, 130);
 setrolor (RED);
 circle (142,82,6);
 Floodfill (142, 82, RED);
 setcolor (YELLOW);
 circle (142, 100, 6);
 Floodfill (142, 100, YELLOW);
 setcolor (GREEN);
 circle (142,118,6);
 flood fill (143, 118, GREEN);
 Setcolor (WHITE);
 rectangle (150, 180,250, 300),
 rectangle (250, 180, 420, 300).
 retangle (180, 250, 220, 300).
  line (200, 100, 150, 180);
  line (200, 100, 250, 180);
  line (200, 100, 370, 100).
  line (370, 100, 420, 180).
  setcolor (BROWN);
  floodfill (152, 182, WHITE);
  Hoodfill (252, 182, WHITE);
  settolor (LIGHTRED);
```

floodfill (200, 105, WHITE);
floodfill (210, 105, WHITE);
getch ();
close graph ();
return 0;
pular mills

