```
NAME-BHARAT GURUNG
 BCA - II SOM, (A)
  1121057, class od1-34
                                        Thanks
  Computer Goaphics (practical)
       # include (stdio.k)
Ans1.
       # include (graphics. h>
                                          200 F. V. V.
       ent main()
                                          1 . (11) (2
         ent roo ( float num)
           return num <0? num -0.5: num +0.5;
         int x1 = 100, x2 = 250, y= y1 = 100, y2 = 250, step;
         int gd = Detect, gm;
         Float X, Y, m;
         "ent dx= x2-x1;
          int dy = 42 - 11;
                                          ) with
          m= dy/dx;
           el (dx>dx)
                                        policy and all by the
           step = dx;
            Step = dy;
          Enitograph (8gd, 8gm, ");
                                        V Shared I do no the
          outtentay (KL, YL, "A");
          outextry (x2, 42, B");
          putpixel (XI, YI, RED);
```

```
X= X1, Y= Y1;
        whole (step>0)
          4 (m<1)
                                    La colon por the party of the
             y= y+m;
            ief (m>-1)
           1 x2x+1/m;
                                which of the grown of his con-
             putpixel (ron(x), ron(y), RED);
            getal ()
           return O;
                                       A VALORIAN
                                         (vb < x16) pg
            1 Stort A
   Algorithm; i) Declare XI, 41, X2, Y2, dx, dy, X, y as
   enteger vomables.
    Enter Value of X1, Y1, X2, Y2.
71)
    calculate dx = 1/2 - XI
īti)
                                CALLY IX D. VELSTERS
    Calculate dy -42-41
iv)
     4/ ABS (dx) > ABS(dy)
```

Then step = alss (dx)

vi) X fine = dx/slep Yine = dy/slep assign X = X1 assign Y = Y1

vil) set pfxel (x,4)

viii) X= X + Xinc y= Y+Yinc set pixels (Round (x), Round (y))

() North Property of the Comment

Throng

IN) Repeat Step (Vii) until x = X2

THAT YOUR DIE VIEW YOUR STREET

X) End Algorithm



NAME-BHARAT GURUNG BCA (A) , VI or SOM 1121024, dasrell-34 COMPUTER GRAPHICS (PRACTICAL) Anst. # include < graphics. N # include (eon'o.h) # include < clos. h> (u.s.) Long to #-include (Stdlib. h) main int gd = Dercer, gm, midx, nidy; Enitopaph (8 gd, 8 gm, C: 1/TC11 BGI"); midx = getmaxx () /2; midy = getmaxy ()/2; setulom (RED); settentstyle (SCRIPT_FONT, HORIZ_DIR, 8); settent justify (CENTER_TENT, CENTER_TENT); outextry (nidx, midy 10, " Traffic light Animation); outtextxy (midx, midy + 10, " Press tiny key to start); getch ();

getch();
charderice();
setcolor (WHITE);
setcolor (WHITE);
settortstyle (DEFAULT_ FONT, HORFZ_DIR, 1);
settortstyle (DEFAULT_ FONT, HORFZ_DIR, 1);
settortstyle (nidx - 30, midy - 80, midx + 30, mpdy + 80);
rectangle (nidx , midx - 50, 22);
Circle (midx , midx - 50, 22);
Setcolor setfillstyle (solid FILL, RED);

```
floodfill (midx, midy -so, WHITE);
set color (BWE);
outleastay (midx, midy - so, " stop");
 delay (2000);
 grayshdefaults ();
 dearderice ();
 setudor (WHITE)
 nectangle (midx-50, midy-do, midx+30, midy+00);
 cid- circle (midx, midy, 20);
 setfilistyle (SOLED FELL, YELLOW);
 floodfill (midk, midy, NHITE);
 scholor (BLUE);
 outtextay (midx - 10, midy - 3, "EREADY");
  delay (eno);
 · dearderice ();
  refutor (WHITE);
  rectange (midx-80, midy-00, midx+80, midp+00);
 circle (nida, midy+50,22);
 setfill style (sold). FILL, GREEN);
 floodfill (wide, midy 450, WHERE);
  setalor (BWE);
  outtentay (midx -+, midy ++0, "40");
  setator (RED);
  settextstyle (SCRIPT_FONT, HORFZ_PIR, 4);
  outfaithy (midx-150, midy+100, "press ANK Key
   TO EXIT .. ");
```

getch (); closegraph (); return 0;

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