NAME & Ayush Wantigal Subject & Computer graphes and arum atom
Kall no 1: Course J BCA Kall no + 1121024 DDA line algorithm and deawing algorium Algo Step 2 - 2 Start Algorithm Step 2 & Declare XI, y, x2, y, dx, dy, x, y unteger Variable Step3 + Enter value of ×1, y1, ×2, yv Step 4 + Calculate dx = x2-x1 Steps + Calculate dy = y 2 - y1 Step 6 = of ABS (dx) > ABS (dy)
Then Step = abs (dx) Else Step 7 > Yinc = dx/Step Jinc = dy/step assign x = x, Ass. assyn y 2 y,

```
Step8: - set pixel (x,y)
Stepg: - x = x + xing
        y z y + yinc
       Set pixels (Round (V), Round (Y)
       Referrent Wer 9 until x = x L
Step 11! End program
         Program
   H mulude L greephics. h?
   # melude L'conso.4)
   # Inellude a Stolico. hs
 void many
  intgd z DETECT, gm, uj
 float x, y, dx, dy, steps,
 unt x 0, x1, y0, y1;
 undgraft (sgd, sgm, "C! 117611BGZ"),
 Setbekcolor (WHITE);
  x0 = 100, y0 = 200, x1 = 500, y1 = 300;
  dr = (float) (x1-x0);
  dy 2 (flow-) 141-40),
   iy (dx7=dy)
                                    My
     Steps - dxj
```

```
dy = dy 1 steps;
10 2 x0;
 7270%
121;
while I i Lesteps!
  purposed (x,y, AED);
   x+~dx;
   y+2dyj
   1=1+19
   getch (1)
 Cless grouph 11 1
```



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Oust on -3 (3)
W. A. P to design Traffic light animation
 # Ineludic CSt-dio. h)
 # Inellide L greeph cs. hs
 und maiss
  int gel 2 DETECT, gm's
init graph 1 bgd, bgm, "1"];
   Lin (0, 200, get max x (1, 200),
   duis (0,360, get max v (1),360);
   set color(WHITE1)
 . restagle (150, 210, 260, 230)
2 Hwodfill (152, 220, WHITE),
 3 reclayle (150, 240, 260, 260) j
 4 oftwodfel (152, 141, WHITE)
 s reterper (150, 2270, 260, 490) j
   Hood fet [ 152,271, WHITE),
 1 revery (136,500,260,160,380),
 & Hwodpul 132,501, wn IIs),
 9 restaye (150,330, war 25)
 10 Hwodpe US2,331, WHITE),
  Set Color WHITE);
  rellage (140, 200,145, 130)
  reltage [130,130,155, 40]
  Skeptalor (RED),
 arde (144,82,6);
```

Hood fil (141, 100, 481, 100) arch (142, 118, 8); blood pil 11435118, GREEWI) Set Ceror (WHITE) getch 11, des graphil 1, Juluan 0 j

