Name: Arun Mehta Course- BCA (6th Sem) Section- A University Roll No-1121023 Clas Roll No - 21

Date: 16-06-2021 Sujed: Computer Graphics and

Anination

Ans-1 Implementation of DDA Line Drawing Algorithm.

=> Algorithm:

Step 2: Declare x1, y1, x2, y2, dx, dy, x,y, as integer variable

Step3: Enter value of x1, y1, x2, y2

Step 4: Calculate dn = x2 -x1

Step 5: Calculate dy= y2-y1

Step6: If ABS(dx) > ABS(dy) Then step = obs (dx)

Else

Step 7: xinc = dx/step Yinc = dy/stop ossign x =x1 assign y=y1

Step8: Set pixel (x,y)

Stop9: x = x + xinc y=y+yinc Set pixels (Round (n), Roundly))

Step 10: Repeat Step 9 until x = x2

Step 11: End/Stop

```
=> Programs
        Hinclude < graphics. h>
        Hinclude < conio. h >
        Hincluck < stdio.h>
         void main ()
              intgo DETECT, gm, i'
              floot x, y, dn, dy, steps;
               int x0, x1, y0, y1;
               initgroph (2gd, 2gn), "");
               Solbkoolor (WMITE)
               x0=100, y0=200, x1=500, y1=300;
                dr= (float) (x1-x0);
dy= (float) (y1-y0);
                  1/ (dn >= dy)
                               Steps = du;
                 clse steps: dy;
                 dn= dn/stops;
                 dy = dy/steps;
                 y= yo;
                 while (i <= steps) { pubpixel(n, y, RED);
                                   close goraph();
```

```
Double-leaf-pc:—S touch dda.c

base) adminglab6-pc:—S gedit dda.c

base) most likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreads has no base likely this is a multi-threaded client and XimitThreaded client and XimitThreads has no base likely this base likely this likely this likely this likely this likely this li
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And Animation

AN-3 Traffic Light Animation

#include < conjohn >

#include < graphith >

int main()

int go = DETECT

initgraph (200,)

int gd = DETECT, 97;
initgraph [2gd, 2gh, "");
line (0,200, getnaza (), 200);
line (0,360, getnaza (), 360);
linel 0,360, getnaza (), 360);
setcou (WMITE);
nectangle (150,210,260,230);

floodfill (152,220, WHITE); nedargh (150, 240, 260, 260) floodfill (150, 271, WHITE)

nedarge (150, 270, 260, 290); floodfill (152, 271, WHITE);

gredargle (150, 300, 260, 390);

floodfill (152, 330, WHITE);

gredargle (150, 330, 260, 350);

floodfill (152, 33), WHITE);

4

School WHITE) I-clangle (140, 200, 145, 130); Set color (RED); Ctde (142,82,6); [100dfill(142,82,RED) School (YELLOW) OHUC (142, 100,6). [loodfill(142,100, 46/2010) Setcolor (GREEN); Citole (142, 118, 6); [loodfill (143, 118, GREEN), Set cold (WHITE). nectargle (150, 180, 250, 300); redangle [250, 180, 420, 300); netangle (180, 250, 220, 300). line (200, 100, 130, 180); line (900, 100, 250, 180). line (900, 100, 370, 100). 11nc (370,100,420,180); Schoolor (BHOWN); Hoodfill 152, 182, WHITE). floodfill (152, 182, WHITE). Schoolor (LIGHTRED): Woodfill (200, 105 WHITE) bloodfill (210, 105, WMITE). close graph ()

