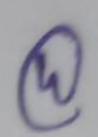
Name - Ashish Dabonal Course - BCA'6' 'A' University Roll No - 1177027 Subject: - Computer Graphics Practical Ashish

01 501 ODA Algorithm: Step 1: Start Algorithm step?: le clore x 1, y 2, x 2, y 2, dx, dy, x, y as integer variables. Step d: Enten value of x 2, y 2, x 2, y 2. Step4: Calculate dx = x2-x1 Step5: Calculate dy = y ? - y ? Stepb: If ABS(dx) > ABS(dy) Then Astep = abs (dx). Else Step7: xinc = dx/step yinc = dy/step assign x = ×1 assign y = ya Step 8: Set pixel (x,y) Step 9: x = x+ xinc y = y + yinc Set pixels (Round(x), Round(y)) Steplo: Repeat Steps until x = x? Steph: End Algorithm Ashish

```
# include L graphia.h>
# include Loonio.h>
# include Ls+dio.L>
void main()
  intgd = DETECT, gm,i;
  float x, y, dx, dy, stops;
  int x0, x1, y0, y1;
  initgraph(29d, 89m, "(:))7(1)861");
  Setbk color (WHITE);
 x0=100, y0=200, x1=500, y1=300;
   9 x = (tloat)(x) -x0);
   dy = (float) (y2-y0);
  (4) = < x b) 2i
      Steps = dx;
 else
  Steps = dy;
dx = dx/steps;
dy = dy/steps;
x = >0;
 y = yo;
```



Ashish

```
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      Source Code
      #include (graphics.h)
      in+ main()
        intgo = DETECT, gm;
       initgroph ( & gd, & gm, "NULL");
       Line (0,200, getmaxx(),200);
       Line (0,360, get maxx1), 360);
       Set color (WHITE);
       ou ctangle (150,210,260,230);
       Aoodfill (152,720, WHITE);
       ouctangle (150, 240, 260, 260);
       f100dfill(157,741,WHITE);
       Juctangle (150, 270, 260, 290);
       floodfill(152,271,WHITE);
        suctangle (150,300,260,320);
       floodfill [157,301, WHITE);
        rectangle (150,330,260,350);
        floodfill (157,331, WHITE);
```

```
SE SE+COlor (WHITE);
ou ctangle (140,200,145,130);
su ctangle ( 130, 130, 155, 70);
setcolor (RED);
circle(142,8 f2,6);
floodfill (147,87, RED);
Set color ( tetto YELLOW);
eirclo (142, 100, 67;
floodfill(142,100, YELLOW);
Se set color (GREEN);
 Circle (147, 118, 6);
 F1008fill(43, 118, GREEN);
 Set color (WHITE);
 ore ctangle (150,180, 750,300);
 ouct angle (250, 180, 420, 300);
 nectang6 [ 100, 750, 270; 300);
 Line (200, 100, 150, 180);
 Line 1200, 100, 250, 1801;
 Line (200, 100, 370, 100);
 Line (370, 100, 420, 180);
 Setcolor (BROWN);
  floodfill($182, 182, WHITE);
  floodfill (257, 182, WHITE);
  Set color (LIGHTRED); .
```

floodfill (182,252, WHITE);

Setcolor (LI hHTRED);

floodfill (200,105, WHITE);

floodfill (210,105, WHITE);

getch();

closegraph();

retwind;

Ashish

