```
Mame: - Ayush Godiyal Courre: - BCA Sem: - 6 Sec: A
University Roll No:- 1121033 Eurojeet L CG practical Exam.
Answer(1) program to implement DDA line ADrawing
         Algorithm.
   # include < graphics. h>
   # include < conio.h>
   # include < xtdio.h>
    Void main()
   $
    intgd = DETECT, gm, ii
   float X, y, dx, dy, steps;
    int xo, x1, y0, Y1;
    initgraph ( &gd , &gm, "");
    Setbkcolor (WHITE);
    X0 = 100, 40 = 200, X1 = 500, Y1 = 300;
    dx = (fload) (x1-x0);
     dy = (flood) (Y1-Y0);
    if ( dx > = dy)
     $
      steps = dx;
```

else

Logar a my r 2 miles Of the off many Steps - dy; 3 - Oll Mary and the state of the second from the second dx = dx/steps; dy = dy | steps; X= Xo; Y= Y0; 1=1; cica steps to the galacter of the state of 3 pupirel (x, y, RED); 1. " " what we do also properly \times += dx; TO THE PORT OF THE PARTY OF THE 4+= d7; 1= 1+1; 3 CV IV CI DI CI geten(1) Closegreigh (1)

Algorithm

Stepli- Start

Step2:- Declare XIII 1 × 21/2 1 dx, dy, x1y.as integer yaniables.

stop 31 Enter value of X1/4,1×2/1/2

Step42 Calculate dx = x2-x1

Steps - Calculate dy = 042-4,

step 6+ if ABS(dx) > ABS(dy)

Then step = abs(dx)

ELAR

step7 - Xinc = dx/step

Yinc = dy/ steb

Osvign X = X1

onign Y= Y1

step 8: - set pixel (x,y)

step9: x = x + xinc

y = y + Yinc

set pixel (Round(x), Round (4))

sup 10: Repeat slep 9 centil X = X2

step 11: End

