Name-Ayush Chawle
Course - BcA
Section - 6A
Roll No. - 1121031
Q1. Write a C Pro

Or Write a C programme to implement DDA line drawing algorithm

Solo DDA Algouithn

Step 1: calculate dn. dy.

 $dx = x_1 - x_0$ $dy = y_1 - y_0$

Step 2: Depending upon value of du and dy. choose number of steps to put pixels steps = abs (dx) > abs(dy)? abs(du): abs (dy);

Step 3. calculate incernent in u and y for each stops

Ninc = dx/fflocit) stops;

yine = dy / (float) steps;

Step 4: Pat Pixel for each step

x=16

y=y0

for Cint i=0; i=steps; i++)

put pixel (1,4, BLUE);

x+= xinc

y+= yinc

Code: Hinclude Kstolio W # include <glaphics. W int main () } int sou (float num) return non 20 ? non-05 : non+05; int u1 = 100, 1/2 = 250, y= 100, y= 250, step; int gd= DETECT, gm; float nyin; int du= ni-xi, int dy=yr-yi mz dyldr; if (durdy) steps = dn; steps=dy! iritgroph (Agd, Agn,"");.

outtenty (n, ,y,;A");

```
outtenting (x1, y1, "B");
petpixel (x1, y1, RED);
 N=K, y=y,
while (step >0) &
     if (m<1) &
     4 (m>=1) f
     putpixel (sou (u), sou (y), RFD);
```

