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Course: - BCA

Semester: - 6

Section: - A

Chiversity Roll No.: - 1121180 Subject: - Computer Graphics

Subject code: - PBC-602

```
# include ( stdio. h)
#include & graphics.h)
 int main()
    int row (float mum)
        return num <0 ? num -0.5 num to.5;
    int x1=100, x2 = 250, y1 = 100, y2 = 250, step;
    int god = DETECT, gm;
    float x, y, m;
     int da = 22-2/9
     int dy = 42 - 410,
      m = dy /dx;
       if (da > dy)
          step - dx;
       else step = dy;
      intgraph (lgd, lgm, "");
      outtentry (x!,y!,"A");
     outland rey (22, 42, "B");
    putprixel (x1, y1, RID);
      x = x|_{g} y = y|;
```

```
while ( step >0)
  $ & (m < 1)
       putfixel (rous(2), rous(y). RED);
  getch()
return o;
```

ALGORITM OF DDA

steh 1 Staut
steh 2 Read the values of x1, y1, y2, x2

Step3 Calculate $\triangle X$, $\triangle y$ and M from the given input. We know that the slope of a storaget line m is given as

These paer ameteries are calculated as

· Dr = Kn 20 Dy = yn-yo · m = Dy/Dr = m = yn-yo

Step 4 (alculate the no. of steps on points in between the steeling and ending coodinates

if (wood (dx) > since dy))

Aters = wood too); dx

we else

steps = dy

etch 5. Suphone Calculate the next coordinates by checking following cases

Case 2
$$\rightarrow$$
 $X_{p+1} = \text{supp} \left(1 + x_p\right)$
 ifm=1 $X_{p+1} = \text{supp} \left(1 + x_p\right)$

eteps Kep repeating step 5 untill the end points (including the starting and ording points)

Equals to the attent wont

steht Stop

