```
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Course - BOA 'A
 ROLLING & HATEND
 produom.
# include <3+dio-h)
# include (graphicum)
  int main ()
      introu(float num)
          return num (0) num-0.5: num to 5
         int x1=100, x2=250, 41=100, 42=250,5teb;
           int gd = DETECT igm;
              Hoat x: y, m;
               in+ dx = x2 - X1;
                in+ dy = y2-yi
                  m = dy dx;
                     if (dxxdy)
                        std= -dx;
                        step=dy;
                     inited the special
                      outtext xy (x1,y,A");
                       outlextxy (x21421"8");
                        but pixel (x, y, ReD);
                          X=X1 18=41;
                           while (step >0)
                            (12m) fi
                              i = x+1;
y = y+m;
                                 (1= cm) +1)
```

```
x= x+1 |m;
   9=9+1;
    > publicel(rou(x), rou(y), RED);
        stet ;
       9 04(1);
         raturno;
 DDA algorithm;
Step 1: start Algorithm
Step 2: Declare XI. YIX 2, Yz, dx, dy, xy as inleges variables.
steps: Enter value of x, y, x, y=
stepy: calculate dx= x2-x1
sleps calculate dy - y-y,
steps: If Aos (dx) > ABs (dy)
              then Step = abs (dx)
              Elu
                                  Steplo: Reprot Step 9
  Step 7 Xinc = dx | step
                                        until x= x2
          gine - dy/ stet
          amigh x = x1
           anign y = 31
   sleb + . set bixel (xy)
   5 10 9 x = x4 xinc
          3= y +yini
             sel bixels (found(x), found (y))
```