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Course - BCA
                                   semester > 6th
                                   Roll no + 1121021
Section - A
Q7 -
Ans - DDA Algorithm
     Step 1: calculate dx, dy
         doc=x1-x0;
          dy = y1-y0;
      Step 2: Depending upon absolute value of dx & dy
          Steps = abs(dx) > abs(dy)? Dabs(dx): Dabs(dy)
           Steps = abs(dx) > abs(dy)? abs(dx): labs(dy);
      Step3: calculate increment in x 8 y for each Steps
               Xin= dx / (float) steps;
               Yine = dy ((float) Steps',
     Step4: 11 Put pixel for each step
             \chi = \chi_0
             y = 40;
         for (ind i= 0; i <= steps; i+1)
          2 Putpixel (X, X, White);
               X += Xinc
             Yt= Yinc)
```

```
Grogram :- DDA
     #include ( Stdio, h >
     # include <graphics.h>
       (ut main ()
        int rou (float num)
            return num < 0? num 0.5: num + 0.5;
     int x = 100, x 2=250, y = 100, y = 250, step;
         int gd = DETECT, gm',
          float x, y, m;
int dx = x2-x1;
          int dy = 42 - 41;
          m = dy/dx
          if (dr. >dy)
                Step = dx;
         else
            Step=dy;
      initgraph (8gd,8gm,"");
      outtentry (x1, y1,"A");
      outtendary (x2, y2,"B");
       Putpixel (x1, y1, RED);
        x = xr, y=y1;
       while (Step>0)
            if (m<1)
                X = 2(+1',
Y = y+m;
```

Scanned with CamScanner

