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Course: BCA (A) Subject: Computer Graphics & Animation

Paper Code: PBC-602

END TERM Practical

Ans 1) Algorithm! To implement DDA line Drawing Algorithm. Step 1. Delare ni, y, , n2, y, , dn, dy, n, y us integer variables.

Step 2: Enter the values of n, y, the yz.

Step 3! Calculate dn = n2-n1

step 4 1 Calculate dy = y2-y1

steps: If ABS(dn) > ABS(dy)
Ther step = dos(dn)

Step 6: vinc = dn/step yine = dn/step amign n=n, arnign y = y,

Step7: set pixel (4, y)

Step 8: n = n + nine

y = y + y in

set pixels (Round (n), Round (y1)

Step 9: Round replace of well n = no

Step 9: Repeat setep 9 with n= n2 Step 10: End Algorithm.

frogram:

#include < stdio.hs

#include < graphics.hs

ido readello

int round (float o)

return (a < 0? a - 0.5: a + 0.5);

3

int main()

int gd = DETECT, gm;

float N, y2, y, y2, steps, dn, dy, nin, y, nc;

print fl "Guter the starting & ending co-ordinates g

the [n, 12).

(stanf(")ffff/f/f/-) 12h, 3/2, 2n2 P

```
intityraph (Agd, Egm, NULL);
      dn = n_2 - n_1 \tilde{j}
       dy = 42-413
    fabs (dn);
    fubs (dy);
    if (fabs (dn) > fabs (dy))
       A step = fabs (dn) 3
         "Steps = fabs (dy);
         nine = dn/steps;
         yine = dy 1steps;
         put pixel (n, y, , red);
      for lint i= 0; i < steps; i++)
         2 n, = n,+ n/m 5
            41 = 41 + 4 ine ;
      prtpix el [ sound off (n,), nound off (y,), 1+1/10);
           delay(50)-6
```

getch ();

dorgraph ();

return 0;

