END TERM PRACTICAL EXAMINATION

Name

Violal Singh

Father's Name

Gindhan Singh

University Roll no

1121171

Course

BCA

Semester

6

Paper Name

CBNST

Paper Code

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Type of Paper

Regular

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#include estatio. h> # include < graphics. h> ind main () int nou (float nom) neturn num < 0? nom - 0.5; num + 0.5; int 11=100, x2=300, y1=100, y2=200; int gd = DETECT, gm; float pk, pkk, x, y, step; int dx = x2-x1; int dy = y2-y1; pK = 2*dr-dy; if (dx>dy) step=dx; else step=oly; initgraph(kgd, kgm, ""); outtextry (x1, y1, "A"); outtentry (x2, y2, "B"); putpixel ("x1, y1, WHITE);

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x= x1, y= y1; while (step >0) 1 (pk <0) pkk = pk+2*dy; pkk = pk + 2 * dy - 2 * dx; gtr; putpixel (nou(x)z, nou(y), wHITE); getch (); return 0;

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Bresen ham's Algo

Steps: Start

Step 2 Declare n.y. x1, y1, x2, y2, dn, dy, steps,

Step 3 Declare gmand initialize gd = Detect fi=1.

Step 9 Enter coordinates x14y1 of first point Step 5 Enter coordinates x24y2 of second point Step 6 Initialize graph by using initgraph (4gd, 4gm, "")

Step7 Calculate, dn= 22-21; dy= y2-y1 Steps=dn-1

Step 8 Initialize decision parameter

PK = (2* dy) · dx

Step 10 Repeat step 11 to 13 while ics steps

(y)

Step ! Check if p<0, then

putpixel (x,y, white)

x=x+1

y=y;

p=p+(2*dy);

Step12 putpivel (n, y, wHITE)

y=y+1

P=p+(2+dy)-(2+dn);

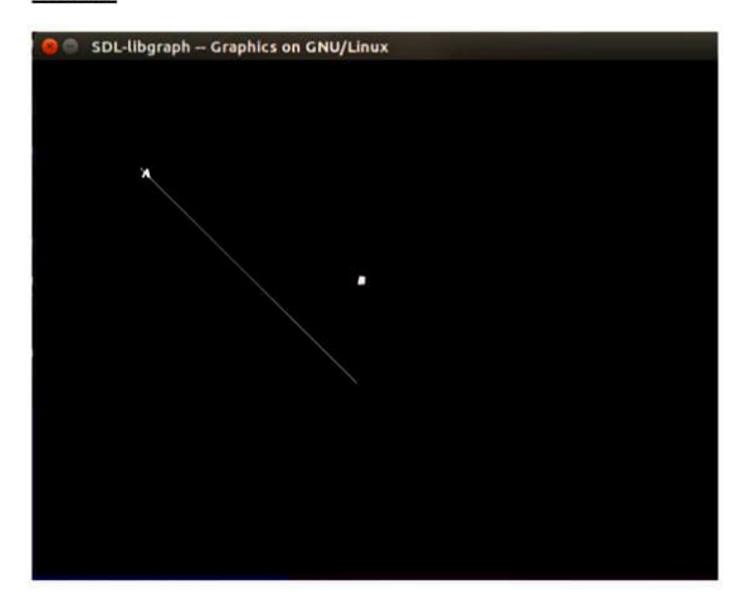
Step15 Increment i by one.

Step14 Close the graph

Step 15 close: Stop

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OUTPUT



#include < stdio.n > # include < graphics h> int main () int go = DFTECT, gm; int J, x, y, p, xc = 200, yc= printf ("Enter nadius"); scanf ("y.a", &n); initgraph(lgd, 4gm, ""); P=1-1; for (x=0; x <= y if (p(0) p=p+(2*n)+1; else (y = y-1; P=P+(2*n)·(2*y)+1;

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putpixel (xc + x, yc +y, 7); putpixel (xc +y, yc+x, 7); putpixel (xc.x, yc+y,7); putpixel (xc-y, yc-y,7); putpixel (xc-y yc-n, 7); putpixel (xcrn yc-y, 7); getch(); (losegraph(); neturn o; Algorithm: Stepl: Start Stepz: Plot center coordinatus (p., 9.) follows: p=0,9.= n. Steps: Now Calculate the init decision parameter do=1-1; Stepy: Assume the starting coordinates (fx, gx) The next coordinate will be (PK+1, 9K+1) find the next point of first octant according Steps follows these 2 cases-Casel: It dk 40, then Case 2: () t dx > = 0, then PK+1 = PK + 1 PKt1 = PK + 1 9x+1 = 9x - 1 dK +1 = dK + 2 pk+1+1 dk+1 = dk - 2(9K+1+29K+1+1) Steps: If center not (0,0) points will be

Step 1: Repeat step 5 f 6 until x>= y

Step 8: Stop

OUTPUT:

