END TERM PRACTICAL EXAMINATIONS. Jos polino. Name: - Rukiya Rawat father's Name: Late M.P.S Rawal University Roll no.: 1/21/14 Course: -BCA B? Semester: - 6 Paper Name: - Computer Graphics and Animation Practical. Paper Code :- PBC 602. Type of Paper: - Regular. Date of Examination: - 16th June 2021.

flood fill algorithm with 8 connected Approach Dug Hindude (stdio-h) # include (graphics . a) # include (dos. a) void floodfill (inta, int &, int y) int covert; covert = getpixel (a, b); if (current == n) ? delay (5); pulpinel (a, b, y); floodfill (at 1, b, n, y); floodfill (a-1, b, x, y); floodfill (a, bH, n, y); floodfill (at1, bt1, x, y);
floodfill (a+1, b-1, x, y);
floodfill (a+1, b-1, x, y); flood fill (a-1, b-1, noy); void main() intgd = DETECT, gm; initgraph (& gd, &gm, ""); rectangle (50,50,150,150);

Kuluja

gelos ();
gelos ();
closeg raph ();

Kulaya.

Stopois Algorithm Step az : Initialize the value of seed point. (a, b),
fill color = x and percolor = y. stopoz: Define the boundary values of the polygon. Step 2: - Check if the current centre point is of default color then repeat step 5 and step 05 fell the boundary pinel is reached. Step 05 :- Change the default color with the fill color (n) at the centre (a, b): reighboushood points -.

flood fill (a+1, b, x, y)

flood fill (a-1, b, x, y)

flood fill (a, bH, x, y)

floodfill (a+1, b+1, x, y)

floodfill (a+1, b-1, x, y)

floodfill (a+1, b-1, x, y)

floodfill (a-1, b-1, x, y).

step 07: - Stop.

Kuling.



SET-B:

```
83
```

```
Bresenham's Coicle Drawing algorithm.
Hinclude (stdio. h)
#include (graphics. a)
int main ()
int gd=DETECT, gm;
int 9, x, y, p, xc = 200, yc = 200;
print ("Enter radius");
scary ("%d", &8);
initgraph (& gd, & gm, "");
P=3-(2*8);
for (n=0; x =y; x++)
       P=P+ (4*x)+6;
     p=p+(4*x)-(4*y)+10;
```

putpinel (xc+x, yc+y,1);

putpinel (xc+x, yc+x,2);

putpinel (xc-x, yc+x, y);

putpinel (xc-y, yc+x, y);

putpinel (xc-y, yc-x,6);

putpinel (xc+x, yc-y, 7);

putpinel (xc+x, yc-x,8);

}

getch();

closegnaph();

return 0;

Algorithm

Stepo1 :- Start

Step02: Declare 4, x, y, p, xc, yc variables.

-> xc and yc are the coordinates of the center of the civile.

-> It is the nadius.

Stop 03. :- Enter the value of H.

stopoy: - calculate p=3-(2*8);

8tep 05: Initialize n=0 and y=4;

stop 06 :- Check if the whole circle is scan converted. 3 n>=4

step 07: Plot eight points by using concepts of eight-way symmetry. The centre at (xc, yc). Current active pixel is (x, y).

pulpinel (xctx, ycty, 1) putpinel (ne ty, ye tn, 2) putpinel (nc-x, ycty,3)
putpinel (nc-y, yctx,4) putpinel (nc-x, ye-y,5) pulpixel (nc -y, yc-n,6) putpinel (xc+x, yc-y, 7) putpinel (na ty , ya-2,8).

Step 08. 5 find location of next pixels to be scanned if $\rho < 0$.

then $\rho = \rho + 4\pi + 6$.

no increment in γ .

if $\rho > = 0$.

then $\rho = \rho + 4\pi - (4-\gamma) + 10$.

decrement $\gamma = \gamma - 1$.

in we ment $\gamma = \gamma + 1$.

stepog: Go to step 6.
steplo: Stop.

Kuloure.

