Name: shown Rawat

Course : BCA (6-B)

ROUNO: 1121183 (52)

Subject : Computer Guaphics

Set - 3

Program 3) Brepenham p Cincle Algorithm

Step 1: Start Algorithm

step 2: Declare p, 2, n, y, H, d variables

Piq are coordinates of the centre of circle

I is the modius of the cincle

step3: Enter the value of H

8 tep4: Calculate d= 3-24

Step 5: Initialize x=0

and nbpy = 4

Steps: Check ? the whole circle is scan

converted if n?= j

Saust

Step 7: Plot eight points by uping concepts of eight -way symmetry. The centure in at (pig). Current active pind is (mig).

putpinel (xtp, ytq)

putpinel (ytp, xtq)

putpinel (-ytp, xtq)

putpinel (-ytp, xtq)

putpinel (-ntp, ytq)

putpinel (-ntp, -ytq)

putpinel (ytp, -xtq)

putpinel (ytp, -ntq)

putpinel (xtp, -ytq)

Step8: Find Location of nent pince to be scanned

if d <0

then d =d + 4x+6

incument n= xt1

then de dty (2-y) to inoument 2=2+1 incomment y=y-1

Step 9: Go to Step 6
Step 10: Stop Algorithm

Stant.

Output:

Enter the values of xc and yc :100 100
Enter the value of radius :50

```
# Brognam1
                  # include (S+do. b)
                   # include (quaphics. 1)
                  # include (dop. h)
                   # indude ( conio. h)
                void floodfill (int 2, inty, intold, intrewed)
                         duay (5);
                       putpinel (x, y, newcol);
                      [lood fill ( n+1, y, old, newcol);
                      flood f: u(x-1, y, old, newcol);
                      flood file (x,y+1), old, newed)
                      Proof: Tr (x, h-1, org ' umoral);
                      flood file (n+1, g+1, ald, newcol);
                     floodfile ( n-1, y+1, old, newcol);
                     flood fill n+1, y-1, old newcol);
                     flood! ! (not, you, ald, new col);
                     wid main ()
                       intgd = DETECT, gm;
```

Shout

"notgraph (& gd, 8gm, " CII TURBOC3 11 8GI");

Hectorgle (50,50,150,150)

floodfill (70,40,015);

getch ();

Close graph ();

Algorithm:

floodjill (n.y, oldeolos, new colon)

1) If nony is outside the sources, then ruturn

2) If color of getpinel (x,y) is some go old color, then

3) Ream Joy

Shoodfill (x+1, y, old color, newcolor)

floodfill (x-1, y, old color, newcolor)

floodfill (x-1, y, old color, newcolor)

floodfill (x+1, y+1, old color, newcolor)

floodfill (x+1, y-1, old color, newcolor)

Sawot

