RUBEN ROY | BCA-6(B) | 1121175 (59) | CG End Semester Practical Bresenham Circle Drawing Algorithm:Floodfilt Algorithm using 8-Commected Approach:-Given -> Centre of Circle (Xo, Yo), Radius R Step 1: Assign Starting point (Xo, Vo) as (O, R) Step 2: Calculate decision Parameter Po as Po = 3-2xR Step 3: Suppose current point (Xo, Yo) is next point (Xk+1, Yk+1)

Plot next point on first octant depending on following:
Care 1: If Pk<0, Then Xk+1 = Xk+1

Yk+1 = Yk

Pk+1 = Pk + 4xxk+1 + 6 Case 2: if $P_{K} >= 0$, Then $X_{k+1} = X_{k+1}$ $Y_{K+1} = Y_{K} - 1$ $P_{K+1} = P_{K} + 4x (X_{K+1} - Y_{K+1}) + 10$ Step 4: If given centure point (Xo, Yo) is not(0,0), then

Plot -> Xplot = Xc + Xo

Yplot = Yc + Yo

(Xplot, Yplot) -> Cur (Xplot, Yplot) -> Current point on circle Step 5: Repeat Steps 3 and 4 until Xplot =) Yplot Step 6: Step 5 generates all points for one octant Use & Symmetry property of circle for rest of the points.