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Program 3 => algorithm.

step 1 => START

step 2 => Declare p, q, x, y, r, d variable p, q are coordinates of the centre of the circle & is the radius of circle.

step 3 => Enter the value of r.

step 4 => Calculate d = 3 - 2r

step 5 => Initialize x = 0

& nbsy = r.

step 6 => check if the whole circle is scan converted if x >= y

STOP

step 7 => Plot eight Points by using Concepts of 8 way symmetry. The centre is at (p, q) current active Pixels is (x, y).

Put pixel (x+p, y+q)
Put pixel (y+p, x+q)
Put pixel (-y+p, x+q)
Put pixel (-x+p, y+q)
Put pixel (-x+p, -y+q)
Put pixel (-x+p, -x+q)
Put pixel (y+p, -x+q)
Put pixel (x+p, -y-q)

step 8 ⇒ find location of the next pixels to be scanned.

if d<0
Then d=d+4x+6
increment x=x+1

If d=0
Then d=d+4(x-y)+10
increment x=x+1
decrement y=y-1

step 9 → Go to step 6

step 10 ⇒ stop.

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Enter radius of circle
70
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