

Assignment 1

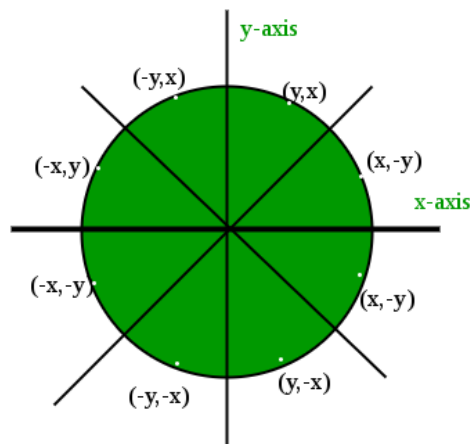
Statement:

Write the pseudo-code for the Bresenham Circle algorithm.

Solution:

1. Include the graphics header file and obtain graphics mode and driver.
2. Get the center point (x,y) and radius(r) of a circle.
3. Initialize the variables
 - i. $a=0; b=r; d=3-(2*r);$
4. If($d \geq 0$) then
 - i. $b--;$
 - ii. $d=d+10+4*(a-b);$
- b. else
 - i. $d=d+(4*a)+6$
5. Repeat step 4 until $a \leq b$ and Increment a by 1 each time.
6. Plot the pixel to display the circle using put pixel function.
7. Display the circle. BRESENHAM'S CIRCLE DRAWING ALGORITHM

Source Code Programming Bresenham's Algorithm



For a pixel (x,y) all possible pixels in 8 octants.