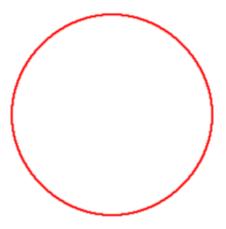
Mid-Point Circle Algorithm Implementation



```
#include <gl/glut.h>
#include <Windows.h>
#include <iostream>
using namespace std;
/*
    c0ded by (C) Ajith Kp (C) (R) _TERMINAL_CODERS_ (R)
*/
void circle() {
    glColor3f(1.0, 0.0, 0.0);
    glPointSize(2.0);
    float r = 100;
    float x = 0, y = r;
    float p = 1 - r;
```

```
glBegin(GL_POINTS);
   while (x != y)
       x++;
       if (p < 0) {
           p += 2 * (x + 1) + 1;
           y--;
           p += 2 * (x + 1) + 1 - 2 * (y - 1);
       glVertex2i(x, y);
       glVertex2i(-x, y);
       glVertex2i(x, -y);
       glVertex2i(-x, -y);
       glVertex2i(y, x);
       glVertex2i(-y, x);
       glVertex2i(y, -x);
       glVertex2i(-y, -x);
   glEnd();
   glFlush();
int main(int argc, char** argv) {
   glutInit(&argc, argv);
   glutInitDisplayMode(GLUT_SINGLE | GLUT_RGB);
   glutInitWindowSize(500, 500);
   glutInitWindowPosition(100, 100);
   glutCreateWindow("201-15-13706");
   glClearColor(1.0, 1.0, 1.0, 1.0);
   glClear(GL_COLOR_BUFFER_BIT);
   gluOrtho2D(-250, 250, -250, 250);
   glMatrixMode(GL_PROJECTION);
   glViewport(0, 0, 500, 500);
   glutDisplayFunc(circle);
   glutMainLoop();
   return 0;
```