```
#include<GL/glut.h>
#include<iostream>
using namespace std;
int r;
void E way(int x, int y) {
glBegin(GL POINTS);
glVertex2i(x+320,y+240);
glVertex2i(y+320, x+240);
glVertex2i(y+320, -x+240);
glVertex2i(x+320, -y+240);
glVertex2i(-x+320,-y+240);
glVertex2i(-y+320,-x+240);
glVertex2i(-y+320,x+240);
glVertex2i(-x+320,y+240);
glEnd();
glFlush();
void B circle(){
float \overline{d};
d = 3 - 2*r;
int x,y;
x = 0;
y = r;
do{
E way(x,y);
if(d<0){
d=d+4*x+6;
else{
d = d + 4 * (x - y) + 10;
y=y-1;
x=x+1;
}while(x<y);</pre>
void init() {
glClearColor(1,1,1,0);
glColor3f(1,0,0);
gluOrtho2D(0,640,0,480);
glClear(GL COLOR BUFFER BIT);
int main(int argc, char **argv) {
cout<<"\n Enter Radius \t ";</pre>
cin>>r;
glutInit(&argc, argv);
glutInitDisplayMode(GLUT SINGLE | GLUT RGB);
glutInitWindowPosition(100,100);
glutInitWindowSize(640,480);
glutCreateWindow("Circle");
init();
glutDisplayFunc(B circle);
glutMainLoop();
return 0;
```

