```
#include<iostream>
 1
     #include<graphics.h>
 3
     #include<conio.h>
     using namespace std;
     void displayCircle(int xc, int yc, int x, int y)
 5
 6
 7
         putpixel(xc+x,yc+y,WHITE);
 8
         putpixel(xc+x,yc-y,WHITE);
 9
         putpixel(xc-x,yc+y,WHITE);
10
         putpixel(xc-x,yc-y,WHITE);
11
         putpixel(xc+y,yc+x,WHITE);
12
         putpixel(xc-y,yc+x,WHITE);
13
         putpixel(xc+y, yc-x, WHITE);
14
         putpixel(xc-y,yc-x,WHITE);
15
16
     void myCircle(int xc, int yc, int R)
17
18
         int x = 0;
         int y = R;
int de = 3;
int se = 5 - 2*R;
19
20
21
         int d = 1-R;
22
         displayCircle(xc, yc, x, y);
23
         while (x<=y)
24
25
26
              if(d<=0)
27
28
                  d += de;
                  de += 2;
se += 2;
29
30
31
              }
32
              else
33
                  d += se;
34
                  de += 2;
35
                  se += 4;
36
37
                  y--;
38
39
              x++;
              displayCircle(xc, yc, x, y);
40
41
         }
42
43
     int main()
44
45
          int gd = DETECT, gm,x,y,r;
          cout<<"Enter radius of circle: ";</pre>
46
47
          cin>>r;
48
          cout<<"Enter co-ordinates of center(x and y): ";</pre>
49
          cin>>x>>y;
50
         initgraph(&gd, &gm, NULL);
51
         myCircle(x, y, r);
52
          getch();
53
          closegraph();
54
          return 0;
55
     }
56
57
```