```
#include<iostream>
#include<graphics.h>
#include<math.h>
using namespace std;
class line
{
 public:
 int x,y,dx,dy,m,steps,xi,yi;
 void output()
  {
    putpixel(x,y,10);
 void line1(int x1,int y1,int x2, int y2)
  {
    dx=x2-x1;
    dy=y2-y1;
    if(abs(dx)>abs(dy))
     steps=abs(dx);
    else
     steps=abs(dy);
    xi=dx/steps;
    yi=dy/steps;
    x=x1+0.5;
    y=y1+0.5;
    output();
    for(int i=1;i<=steps;i++)</pre>
      x=x+xi;
      y=y+yi;
      output();
      delay(10);
  }
}I;
class circle1
{
public:
 void drawcircle(int x,int y,int r)
 int x1=0,y1=r;
 putpixel(x1,y1,3);
```

```
int dk=3-2*r;
 while(x1<y1)
 {
  if(dk \le 0)
   dk=dk+(4*x1)+6;
  }
  else
   dk=dk+(4*(x1-y1))+10;
   y1--;
  }
  x1++;
 putpixel(x+x1,y+y1,3);
 putpixel(x-x1,y+y1,3);
 putpixel(x+x1,y-y1,3);
 putpixel(x-x1,y-y1,3);
 putpixel(x+y1,y+x1,3);
 putpixel(x-y1,y+x1,3);
 putpixel(x+y1,y-x1,3);
 putpixel(x-y1,y-x1,3);
 delay(15);
 }
}
}c;
int main()
{
 int gd=DETECT;
 initgraph(&gd,&gm,NULL);
 I.line1(250,250,150,150);
 I.line1(150,150,50,250);
 I.line1(50,250,250,250);
/* I.line1(100,100,100,400);
l.line1(100,250,250,400);
I.line1(250,400,400,250);
 I.line1(400,250,250,100);
I.line1(250,100,100,250);*/
//l.line1(175,325,325,325);
 //I.line1(325,325,325,175);
// l.line1(325,175,175,175);
// I.line1(175,175,175,325);
 c.drawcircle(149,249,100);
 c.drawcircle(150,210,40);
```

```
delay(500);
 //r=95;x=75;y=95;
 getch();
 closegraph();
 return 0;
}
enter coordinates of centre of circle:
enter the value of x: 100
enter the value of y: 70
enter the value of radius: 30
Enter Total Number of lines: 3
Enter co-ordinates of point x1:40
enter coordinates of point y1:40
Enter co-ordinates of point x2 : 100
enter coordinates of point y2: 124
Enter co-ordinates of point x1:40
enter coordinates of point y1:40
Enter co-ordinates of point x2: 160
enter coordinates of point y2:40
Enter co-ordinates of point x1 : 160
enter coordinates of point y1:40
Enter co-ordinates of point x2: 100
enter coordinates of point y2: 124
Enter coordinates of centre of circle:
Enter the value of x: 100
Enter the value of y: 62
```

Enter the value of radius: 60