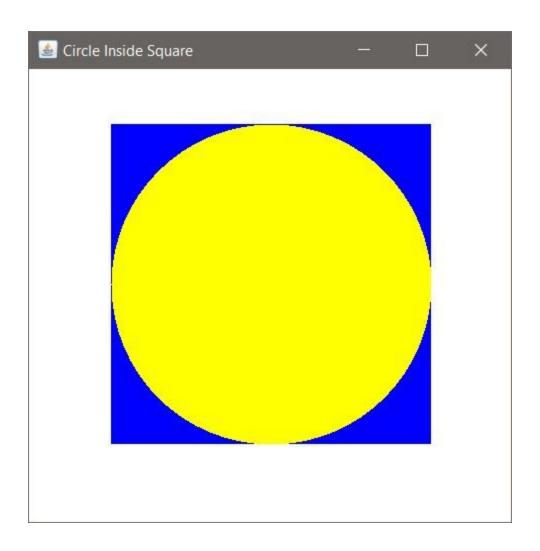
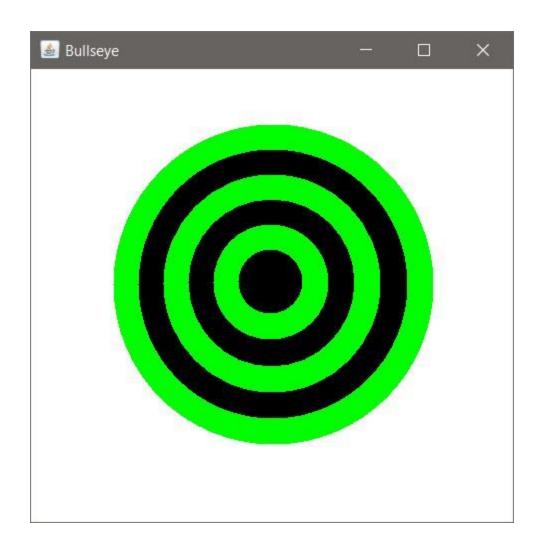
```
💯 CircleInsideSquare.java - C:\Users\brend\Desktop\CS 112 Workspace\Homework\HW01\Project 2 - Geany
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                                                                         Compile Execute
 CircleInsideSquare.java 🗶 Bullseye.java 🗶 Flower.java 🗶 CrescentMoon.java 🗶
        ₽/* CircleInsideSquare.java - draws a circle within a square on
   23
                                                     the screen
              Author:
                             Brendan Kirby
   4
              Module:
   5
                            Project 2
              Project:
              Problem Statement: This class draws a square on the screen, then
   6
                                          draws a circle perfectly within the bounds of
   8
                                          the square.
   9
  10
              Algorithm / Plan:
                            Set color to BLUE
Draw a_filled rectangle of equal length and height
 11
12
                            Set color to YELLOW

Draw a filled oval with equal size major/minor axes
 13
14
15
                       3.
                             (making it a circle) and also having radius equal to
the length and height of the square drawn in step 2
 16
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         import java.awt.Graphics;
import java.awt.Color;
import javax.swing.JFrame;
        public class CircleInsideSquare extends JFrame {
               public void paint(Graphics canvas) {
                     canvas.setColor(Color.BLUE);
canvas.fillRect(73, 75, 256, 256);
                     canvas.setColor(Color.YELLOW);
canvas.fillOval(73, 75, 256, 256);
               }
               public static void main(String[] args) {
                     JFrame drawing;
drawing = new CircleInsideSquare();
                     drawing.setSize(400, 400);
drawing.setTitle("Circle Inside Square");
drawing.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
 41
42
43
44
45
                     drawing.setLocationRelativeTo(null);
                     drawing.setVisible(true);
         3
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```



```
🗽 Bullseye.java - C:\Users\brend\Desktop\CS 112 Workspace\Homework\HW01\Project 3 - Geany
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                                                                                                              6
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 New
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                                                                                                 Compile Execute
 CircleInsideSquare.java 🗶 Bullseye.java 🗶 Flower.java 🗶 CrescentMoon.java 🗶
               Bullseye.java - draws a bullseye pattern on the screen
  1
2
3
4
5
6
7
8
9
10
                Author:
Module:
                               Brendan Kirby
                Project:
                              Project 3
                Problem Statement: This class draws the rings of a bullseye pattern and fills them using alternating
                                              colors.
                Algorithm / Plan:
                               Define a circle of radius 256 with coordinates (73,75) For every decrement the radius by 41, if the resulting radius is even: set color to BLACK and if it is odd:
 11
12
13
14
                               set color to GREEN
For every decrement of the radius, while the radius remains greater than 10, draw a filled oval and increment the x and y coordinates by 20
 15
16
17
18
19
20
21
22
23
24
25
26
27
28
30
           import java.awt.Graphics;
import java.awt.Color;
import javax.swing.JFrame;
         public class Bullseye extends JFrame {
                  public void paint(Graphics canvas) {
                        int radius, xcoord, ycoord;
                        radius = 256;
xcoord = 73;
ycoord = 75;
 31
32
33
33
45
33
40
41
44
44
44
45
55
55
55
55
55
55
55
55
                        for (radius = 256; radius > 10; radius -= 41) {
                              if ((radius % 2) != 0) {
                                    canvas.setColor(Color.BLACK);
                              else {
                                    canvas.setColor(Color.GREEN);
                              }
                              canvas.filloval(xcoord, ycoord, radius, radius);
                              xcoord += 20;
ycoord += 20;
                        }
                 7
                  public static void main(String[] args) {
                        JFrame drawing;
                       drawing = new Bullseye();
drawing.setSize(400, 400);
drawing.setTitle("Bullseye");
drawing.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                        drawing.setLocationRelativeTo(null);
  60
                        drawing.setVisible(true);
  61
  62
  63
line: 62 / 63 col: 1 sel: 0 INS TAB mode: CRLF encoding: UTF-8 filetype: Java scope: Bullseye
```



```
🦢 Flower.java - C:\Users\brend\Desktop\CS 112 Workspace\Homework\HW01\Project 3 - Geany
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New
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                       Save All
                                         Close
                                                 Redo
                                                                Compile Execute
                                 Revert
                                                        Undo
 CircleInsideSquare.java 🗶 Bullseye.java 🗶 Flower.java 🗶 CrescentMoon.java 🗶
       □/* Flower.java - draws a flower on the screen
            Author:
                         Brendan Kirby
   3
            Module:
  4
                        Project 3
            Project:
   5
            Problem Statement: This class draws the center and petals
   6
                                     of a flower and fills them using different
   7
                                     colors.
  8
  9
            Algorithm / Plan:
                        Set color to GREEN
Draw and fill center of flower
 10
                    1.
 11
                         Set color to MAGENTA
Draw and fill petals of flower at 3, 6, 9, and 12
 12
 13
 14
                         o'clock relative to the center drawn in step 2
 15
       1 /
 16
        import javax.swing.JFrame;
import java.awt.Color;
import java.awt.Graphics;
 17
 18
 19
 20
  21
 22
       public class Flower extends JFrame {
 23
 24
             public void paint(Graphics canvas) {
  25
 26
  27
                   canvas.setColor(Color.GREEN);
 28
                   canvas.filloval(190, 190, 25, 25);
  29
                   canvas.setColor(Color.MAGENTA);
  30
                  canvas.filloval(215, 192, 144, 25);
  31
                  canvas.filloval(191, 215, 25, 144);
canvas.filloval(190, 45, 25, 144);
canvas.filloval(45, 192, 144, 25);
  32
  33
  34
             }
  35
  36
  37
             public static void main(String[] args) {
  38
                   JFrame drawing;
  39
                   drawing = new Flower();
  40
                   drawing.setSize(400, 400);
drawing.setTitle("Flower");
 41
 42
                   drawing.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
 43
 44
                   drawing.setLocationRelativeTo(null);
 45
                   drawing.setVisible(true);
 46
 47
        }
 48
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```

