```
package Assign 2 C;
1
2
3
    import Media.*;
4
    import java.awt.*;
    import static java.lang.Math.*;
    import static Media.Turtle.*;
    import static java.awt.Color.*;
8
9
    /** This class is a program to draw beach with palm trees and birds
10
11
      * @author Matt Laidman
12
      * @version 1.0 (October 2012)
                                                                                 */
13
14
15
   public class PalmBeach {
16
17
      private Turtle pen;
      private TurtleDisplayer display;
18
19
20
      public PalmBeach ( ) {
21
22
        int ox, oy;
23
        pen = new Turtle (FAST);
24
25
        display = new TurtleDisplayer ();
26
        display.placeTurtle (pen);
27
        ox = pen.getScreenX ();
28
29
        oy = pen.getScreenY ();
30
31
        drawBeach ();
32
        pen.moveTo (ox, oy);
33
        display.close ();
34
35
36
37
      public void drawBeach () {
38
39
        pen.moveTo (-150, 0);
        pen.setPenColor (new Color (8440063));
40
41
        pen.setPenWidth (300);
        pen.penDown ();
42
        pen.forward (300);
43
44
        pen.penUp ();
        pen.move\bar{\text{To}} (-150, -100);
45
        pen.setPenColor (yellow);
46
        pen.setPenWidth (100);
47
48
        pen.penDown ();
        pen.forward (300);
49
50
        pen.penUp ();
51
        pen.left (PI/2);
52
        palmTree (-50, -70);
palmTree (50, -120);
53
54
55
        bird (100, 100);
        bird (125, 125);
pen.right (PI/2);
56
57
58
59
60
      public void bird (int x, int y) {
61
62
        pen.moveTo (x, y);
63
64
        pen.setPenColor (black);
        pen.setPenWidth (1);
65
        pen.penDown ();
66
        curvedV (pen.getScreenX (), pen.getScreenY (), 1);
67
68
69
70
```

```
public void palmTree (int x, int y) {
71
72
        pen.moveTo (x, y);
73
74
        pen.setPenColor (new Color (16752690));
7.5
        pen.setPenWidth (8);
76
        pen.penDown ();
77
        pen.forward (100);
78
        pen.setPenColor (green);
79
        pen.setPenWidth (4);
80
81
        for (int i = 1; i \le 3; i++) {
         curvedV (pen.getScreenX (), pen.getScreenY (), 2*i);
82
83
      };
84
85
86
      public void curvedV (int x, int y, int segment) {
87
88
        pen.moveTo (x, y);
89
90
        pen.penDown ();
        for (int j = 1; j <= 2; j++) {
  for (int i = 1; i <= 5; i++) {
91
92
           if (j == 1) {
93
            pen.left (PI/6);
94
95
            } else {
              pen.right (PI/6);
96
97
            pen.forward (i*segment);
98
99
100
          pen.penUp ();
101
          pen.moveTo (x, y);
102
          if (j == 1) {
           pen.right (5*PI/6);
103
104
          } else {
           pen.left (5*PI/6);
105
106
107
          pen.penDown ();
     pen.penUp ();
};
108
109
110
111
112
     public static void main ( String[] args ) {PalmBeach b = new PalmBeach();}
113
114 };
```