```
package Assign 2 C;
2
3
                                       // for Turtle and TurtleDisplayer
// for Color objects and methods
4
   import Media.*;
   import java.awt.*;
   import static java.lang.Math.*; // for math constants and functions
   import static java.awt.Color.*; // for Color constants
8
   import static Media.Turtle.*;
                                     // for FAST turtle
10
11
   /** This class creates a Greek Border around the canvas by calling on the methods
    'drawBorder', 'drawRow' and
12
      * 'drawKey', it consists of 4 Greek Rows and 68 Greek Keys in Turtle Graphics.
13
14
     * @author Sawyer Fenwick (st# 6005011)
15
     * @version 1.0 October 11 2016
16
17
18 public class GreekBorder {
19
20
21
        // instance variables
22
         private TurtleDisplayer display;
23
         private Turtle yertle;
24
        /** This constructor creates the Turtle Displayer and the Turtle object
25
    'yertle'
26
          * places yertle on the canvas, calls the 'drawBorder' method, which draws a
   border around the canvas,
          * using the 'GreekRow' and 'GreekKey' methods. */
27
28
        public GreekBorder ( ) {
29
30
31
            // statements including call of method
32
            display = new TurtleDisplayer();
            yertle = new Turtle(FAST); //creating a FAST turtle
33
34
            display.placeTurtle(yertle); //placing turtle on display
35
            drawBorder();
            display.close();
36
37
        }; // constructor
38
39
40
        /** This method creates the Greek Key
41
    */
42
43
        private void drawKey ( ) {
44
45
            // statements
46
            yertle.penDown();
47
            yertle.forward(2);
            yertle.left(2*PI/4);
48
49
            yertle.forward(12);
50
            yertle.right(2*PI/4);
51
            yertle.forward(12);
52
            yertle.right(2*PI/4);
53
            yertle.forward(8);
            yertle.right(2*PI/4);
54
55
            vertle.forward(4);
            yertle.right(2*PI/4);
56
57
            yertle.forward(4);
            yertle.left(2*PI/4);
58
59
            yertle.forward(4);
            vertle.left(2*PI/4);
60
61
            yertle.forward(8);
62
            yertle.left(2*PI/4);
6.3
            yertle.forward(10);
64
65
```

```
66
67
       }; // drawKey
68
69
       /** This method creates the Greek Row using the 'drawKey' method
   */
70
       private void drawRow ( ) {
71
72
73
           //statements
          for(int i = 1; i <=17; i++){
74
75
            drawKey();
76
            yertle.penUp();
77
78
       }; // drawRow
79
80
       /** This method creates the Greek Border using the 'drawKey' and 'drawRow'
81
   methods.
82
83
        private void drawBorder ( ) {
84
          //statements
85
          yertle.moveTo(-136,136);
86
          for(int i = 1; i <=4; i++){
87
88
            drawRow();
            yertle.right(2*PI/4);
89
90
            yertle.penUp();
91
92
93
       }; // drawBorder
94
95
       public static void main ( String[] args ) { GreekBorder s = new GreekBorder();
   } ;
96
97
   } // GreekBorder
```