```
package Assign 4 A;
1
2
3
    import Media.*;
                                         // for Picture and PictureDisplayer
   import java.awt.*; // for Color objects and methods import static java.lang.Math.*; // for math constants and functions import static java.awt.Color.*; // for Color constants
4
.5
8
    /** This class creates a "posterized" version of a photo.
     * @author Sawyer Fenwick st#6005011
10
11
     * @version 1.0 November 7 2016
12
13 public class Poster {
14
15
        // instance variables
16
        private PictureDisplayer display;
17
        /st This constructor displays a picture on the display and posterizes it using
18
    the method "Posterize" */
19
20
        public Poster ( ) {
21
22
          Picture pic;
23
          display = new PictureDisplayer(500, 619);
          pic = new Picture();
24
25
          display.placePicture(pic);
26
          display.waitForUser();
27
          Posterize (pic);
28
          display.close();
29
30
        }; // constructor
31
32
33
        /* This method sets the color channel of each color between 0-3, then scales it
    (*64) so that the picture
34
         * is not all black, giving color channels of either, 0, 64, 128, or 192.*/
35
        private void Posterize(Picture aPic) {
36
          Pixel x;
.37
38
          int b;
          int g;
39
40
          int r;
41
          while(aPic.hasNext()){
42
43
           x = aPic.next();
44
45
           g = x.getGreen();
46
           b = x.getBlue();
47
           r = x.getRed();
48
           x.setGreen((int)(g/64*64));
49
           x.setBlue((int)(b/64*64));
50
           x.setRed((int)(r/64*64));
51
52
53
          }
54
        }; // Posterize
55
56
        public static void main ( String[] args ) { Poster s = new Poster(); };
57
58
59 } // Poster
```