package project1_jk;

import java.util.ArrayList;

/**
 * ColorList class is used to store a collection of Color objects. This class
 * inherits all of its properties from an ArrayList<Color>. It adds Color-
 * specific functions that allow search by color name and by hexadecimal color
 * representation.
 * This class does not store Color objects in any particular order.
 *
 * @author Joanna Klukowska
 */
@ SuppressWarnings( "serial" )
public class ColorList extends ArrayList<Color> {

    /*
     * Search through the list of colors for an object matching
     * the given colorName.
     * @param colorName the name of the color for which to search
     * @return the reference to a matching Color object in the list, or
     * null if the matching color is not found
     */
    public Color getColorByName( String colorName ) {
        for (Color c : this) {
            String color = c.getName();
            if (color == null)
                continue;
            if (color.equalsIgnoreCase( colorName ) )
                return c;
        }
        return null;
    }

    /*
     * Search through the list of colors for an object matching
     * the given hexValue.
     * @param hexValue the hexadecimal value of the color for which to search
     * @return the reference to a matching Color object in the list, or
     * null if the matching color is not found
     */
    public Color getColorByHexValue( String hexValue ) {
        for (Color c : this) {
            String hex = c.getHexValue();
            if (hex != null && hex . equalsIgnoreCase( hexValue ) )
                return c;
        }
        return null;
    }
}