Java program "Traffic Light"

Project 5.18: The goal of this project was to create a drawing of a traffic light and have three radio buttons to decide the state of light (stop, caution, and go). First, I declare the Rectangle, three circles, and radio buttons as private members. I initialize the Rectangle (rect1) to have x coordinate 75, y coordinate 0, width 100, and height 200. I initialize the redCircle coordinates to be on top of the rect1 set the fill to red. I initialize the orangeCircle to be on top of rect1, below redCircle, and set the fill to gray. I initialize the greenCircle to be on to of the rect1, below orangeCircle, and set the fill to gray. I include all the shapes to be in the Group root. Then I declare the ToggleGroup() to be able to toggle between the selected options for the radio buttons. I initialize the redLight radio button to be "Stop", setSelected to be true, setToggleGroup to be group, action handler to processRadioButtonAction. I did the same for the orangeLight radio button ("Caution") and greenlight radio button ("Go"), but I did not specify setSelected() method. Then, I included the radio buttons in the VBox ("options") so the layout would be vertical. I used getChildren()addAll() method to add the VBox options and Group root. For the event handler for the processRadioButtonAction I have an if statement for if the redLight is selected to change the color to red and rest gray. Else if statement orangeLight is selected to change the color to orange and rest gray. Else if statement greenlight is selected to change the color to green and the rest gray. When I run the TrafficLightTester java file the "Stop" radio button would already be selected so redCircle is currently red and the rest are gray. If I clicked on "Caution" radio button the orangeCircle would turn orange and the rest would be gray.

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