Purpose: Using Java Graphical User Interface (GUI) components

Topic: This project is a revision to Project 4. Revise the project from a console-based application to a GUI based application. Create a multiple-form application that will use a menu-type approach:

* Main Form Class:
  + This is the entry point to the application, so it has to have a main method
  + Create a JFrame object
  + Create and add two buttons to the JFrame for the following:
    - Car Entry (instantiate a Car Entry Form object in its action listener click event)
    - Display Cars (instantiate a Display Cars Form object in its action listener click event)
  + need a public static list so that it’s accessible to both Car Entry and Display Cars forms/classes
* Car Entry Form class:
  + No main method
  + Code a default constructor that does all the required work below:
    - Allow user to enter the base requirements first:
      * Labels and Text boxes for make, model, year and weight
      * Radio Button group for five color choices (your choice of colors), with first color being the default
    - Radio Button group for choice of Gas Car or Electric Car, with Gas Car being the default
    - If Gas Car is selected, then enable controls for tank size and fuel type to be entered
    - If Electric Car is selected, then enable controls for battery size and battery type to be entered
    - use an ItemListener to determine which button was selected
    - Add a Submit Button to add the car to the list
      * need an ActionListener to listen for click
      * validate all text boxes using same validation rules as Project 4 – use default values if invalid
      * instantiate a Gas Car or Electric Car object based on the choice
      * add the object to the list
    - Add a Return Button to return to Main Form
      * need an ActionListener to listen for click to close the form
* Display Cars Form class:
  + No main method
  + Code a default constructor that does all the required work below:
    - create a String
    - loop thru the list of car objects, each car’s formatted data to the string
      * you will need line breaks so each car displays on a separate line
    - when done looping, instantiate a JLabel object passing the string thru the constructor
    - add the JLabel to the JFrame
    - Add a Return Button to return to Main Form
      * need an ActionListener to listen for click to close the form

**Project is worth 50 points.**