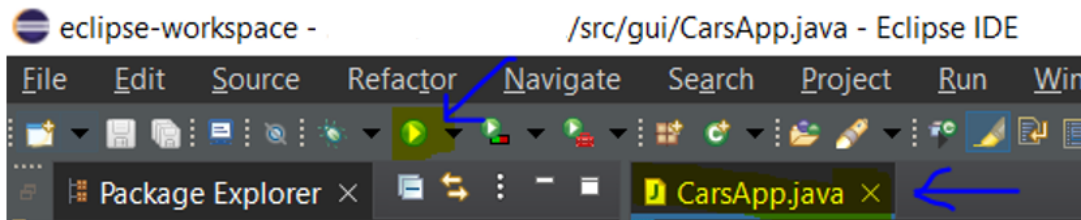


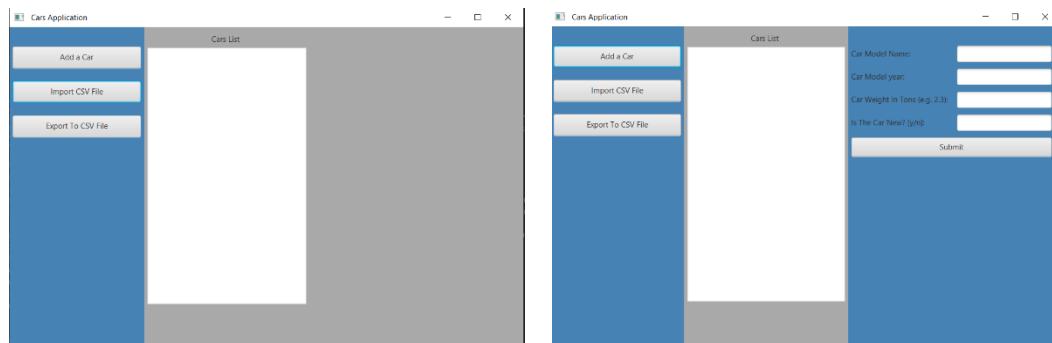
Cars Application

User documentation:

- **How to import the program:**
 - Open eclipse → file → import → General → Existing Projects into Workspace → Select Archive File → cars_app_eclipse.zip
- **How to start the program:**
 - Open the CarsApp.java class then click on the run button in eclipse



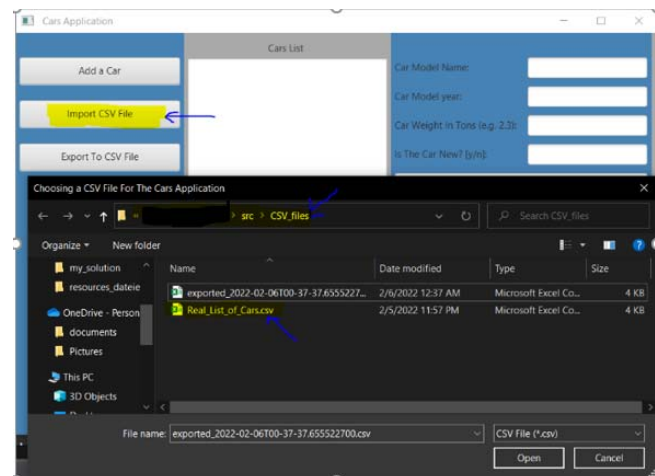
- **How to use the program:**
 - The side bar on the left side has 3 buttons (Add a car, Import csv file and Export to CSV File)
 - To add a car object click on “Add a car” button and enter all the required information to add a car.



- To import a csv file that has many cars objects click on “Import csv file” Button. The file chooser would automatically go the following path:

.....\Cars_App\src\CSV_files

In this Directory there is a csv file named “Real_List_of_Cars.csv” ready to be imported.



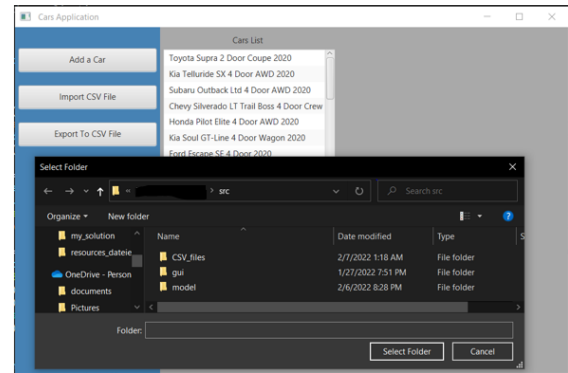
Name: Khaled Badran – <gym4programming@gmail.com>

- To export all the cars objects to a csv click on “Export To CSV File” Button.
The directory chooser would automatically go the following path:
.....\Cars_App\src
Then select “CSV_files” directory.
Afterwards csv file will automatically be created in the following path:
.....\Cars_App\src\CSV_files

The Name of the exported csv file would be:

exported_<<current_date>>.csv

e.g. exported_2022-03-10T01-30-18.982383300.csv



Description of the file format for saving objects:

The file format for saving and loading objects is *.csv file.
The car objects can be imported and exported as a *.csv file.

CSV stand for “Comma-Separated Values”

I opted for CSV files because they are easy to organize, are widely used with data bases, and can easily be printed using any printer.

libraries used in this Project:

- **javafx:** for GUI “Graphical User Interface”
- **java.io:** to be able to read and write from and to csv files
- **java.util:** to be able to use an ArrayList
- **java.time:** to be able to rename the exported csv files based on the current time.

Model Name	Model Year	Weight	Is New
Toyota Supra 2 Door Coupe	2020	3.4	true
Kia Telluride SX 4 Door AWD	2020	4.48	true
Subaru Outback Ltd 4 Door AWD	2020	3.73	true
Chevy Silverado LT Trail Boss 4 Door Crew Cab	2020	5.11	false
Honda Pilot Elite 4 Door AWD	2020	4.32	false
Kia Soul GT-Line 4 Door Wagon	2020	2.84	true
Ford Escape SE 4 Door	2020	3.3	false
Lexus LS 500 4 Door Sedan	2020	4.71	false
Toyota Supra 3.0 2 Door Coupe	2020	3.4	false
Buick Regal TourX 4 Door Wagon AWD	2020	3.71	true
Ford Fusion S 4 Door Sedan	2019	3.47	true
Nissan Altima 2.5 SR 4 Door Sedan	2019	3.29	true
Jeep Grand Cherokee Laredo 4 Door 4WD	2019	4.68	true
Honda Accord LX 4 Door Sedan	2019	3.13	false
Nissan Rogue SV 4 Door AWD	2019	3.61	false
Toyota RAV4 LE 4 Door	2019	3.37	false
Ford F150 XL 4 Door SuperCrew 4WD	2019	4.77	false
Toyota Highlander XLE 4 Door	2019	4.31	false
Lincoln MKC Reserve 4 Door	2019	3.81	true
Buick Envision Essence 4 Door	2019	3.76	true
Toyota Camry LE 4 Door Sedan	2018	3.3	true
Honda Civic LX 4 Door Sedan	2018	2.75	true
Ford Escape SE 4 Door	2018	3.53	false
Jeep Compass Ltd 4 Door 4WD	2018	3.33	false
Subaru Forester 2.5i Premium 4 Door AWD	2018	3.42	true
Hyundai Elantra SE 4 Door Sedan	2018	2.81	true
GMC Sierra Denali 4 Door Crew Cab 4WD	2018	5.41	true
Toyota Highlander XLE 4 Door Sedan	2018	4.31	true
Chevrolet Equinox LS 4 Door Sedan	2018	3.27	true
Nissan Sentra SV 4 Door Sedan	2018	2.88	false
Mercedes Benz SLC Roadster	2017	3.54	false
Chevrolet Silverado Truck	2017	4.98	false
Lexus RX 450h AWD SUV	2017	4.74	false
Jeep Wrangler 4x4	2017	3.94	false
Toyota Highlander Hybrid AWD	2017	4.4	false