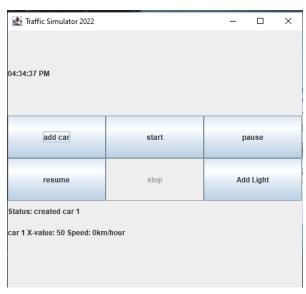
## CMSC335 Project 3 Test Cases

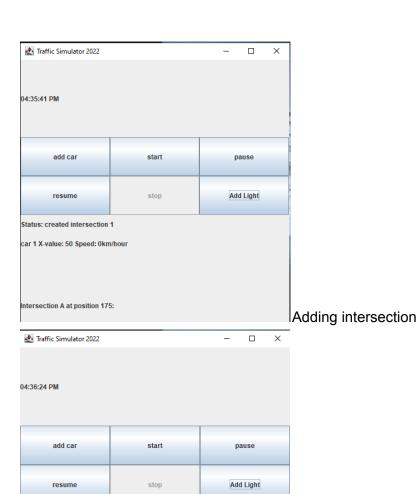
## Lessons Learned:

I learned a lot about concurrent programming in Java. I learned how to set up threads that correspond to certain tasks and to increment time by having them sleep. I learned the difference between pausing and stopping a thread, as well as how to restart and interrupt a thread that is waiting or sleeping. I also learned a lot about Java swing and how to update values in a JLabel based on values returned by a threaded process. I found this program challenging and fun.

Test case	Input	Expected output	Actual output	Pass
1	add a car add an intersection add a car add an intersection add a car add an intersection press start press pause press resume press stop	"created car 1 "created intersection 1" "created car 2 "created intersection 2" "created car 3 "created intersection 3" "sim running" "sim paused" "sim resumed" "sim ended"	"created car 1 "created intersection 1" "created car 2 "created intersection 2" "created car 3 "created car 3 "created intersection 3" "sim running" "sim paused" "sim resumed" "sim ended"	pass

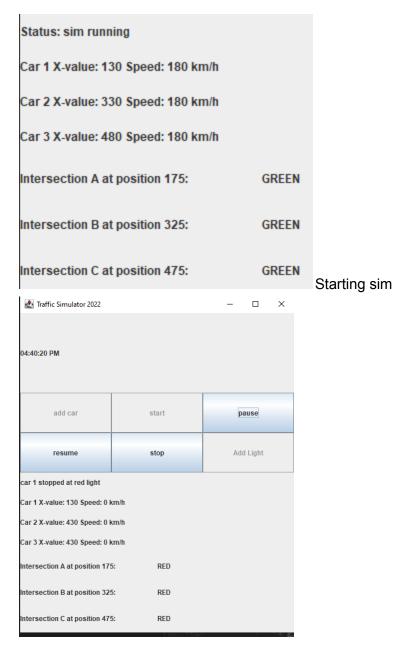


Adding car

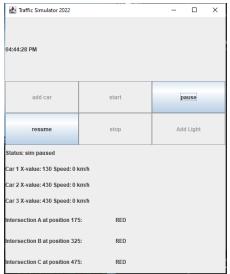


Status: created intersection 3
car 1 X-value: 50 Speed: 0km/hour
car 2 X-value: 250 Speed: 0km/hour
car 3 X-value: 400 Speed: 0km/hour
Intersection A at position 175:
Intersection B at position 325:
Intersection C at position 475:

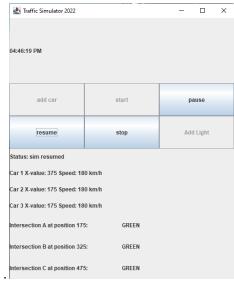
Adding cars and intersections



(All Cars are stopped because they are within 50 meters before a red traffic light)



Pausing sim

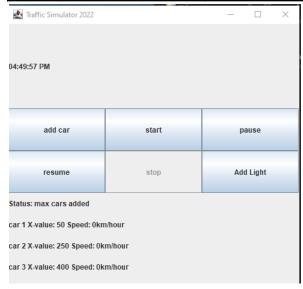


resuming sim

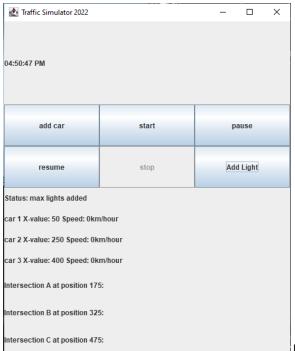


ending sim

Test case	Input	Expected output	Actual output	Pass
2	add a car add a car add a car add a car add an intersection add an intersection add an intersection add an intersection	"created car 1" "created car 2" "created car 3" "max cars added" "created intersection 1" "created intersection 2" "created intersection 3" "max lights added"	"created car 1" "created car 2" "created car 3" "max cars added" "created intersection 1" "created intersection 2" "created intersection 3" "max lights added"	pass

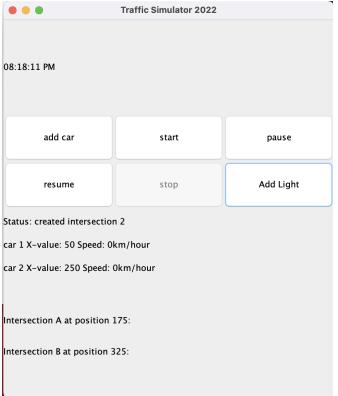


Max cars added

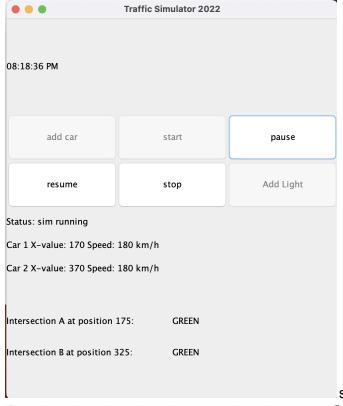


Max lights added

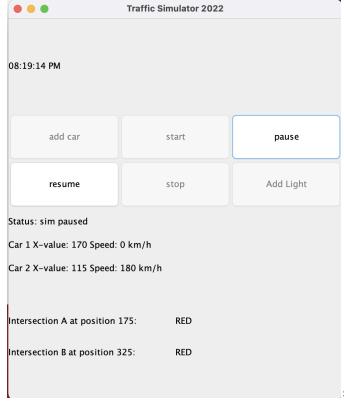
Test case	Input	Expected output	Actual output	Pass
3	add a car add a car add an intersection add an intersection press start press pause press resume press stop	"created car 1" "created car 2" "created intersection 1" "created intersection 2" "sim running" "sim paused" "sim resumed" "sim ended"	"created car 1" "created car 2" "created intersection 1" "created intersection 2" "sim running" "sim paused" "sim resumed" "sim ended"	pass



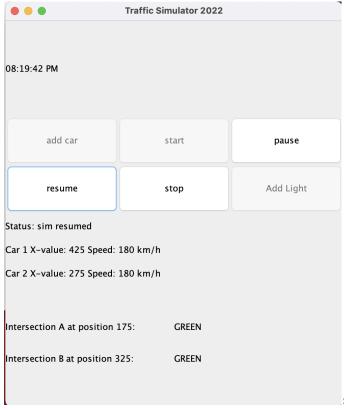
2 lights and 2 intersections created



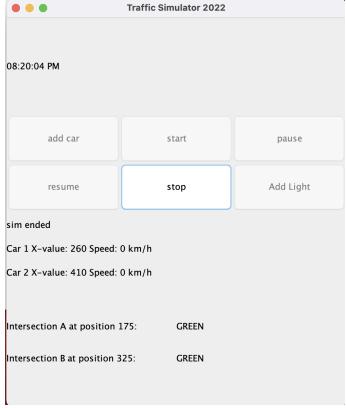
simulation running



simulation paused



simulation resumed



simulation ended

