**Software Engineering Challenge**

**Requirements**

Describe the challenge or problem, what does the program need to do

The program needs to create the buildings, cars, the road, and animate the windows to blink and the cars to move

What classes/objects do you think you need?

I need classes for drawing, and for animations

How much time do you think you will you need to complete the project?

5 days

**Research**

What knowledge or skills will you need to build this program

I need to use my knowledge on Threads or nextFrame, Graphics, etc.

Do you foresee any problems or constraints, describe

Yes, the perspective I am doing is weird and the buildings are not quite rectangular in 2D so it might be too hard to do.

Have you created a similar programs? Are there similar programs in the book or other resources?

I have not created a similar program, but the book has one and the example files in the repository help.

If so, what elements of that project can you bring to this project?

A lot of them, just modified to fit the perspective

Do you have the resources you need to create the program?

Yes, most likely

Do you need to learn any new knowledge or skill(s) to create the program?

Yes, but I don’t know for sure right now which ones, I will have to learn as I go

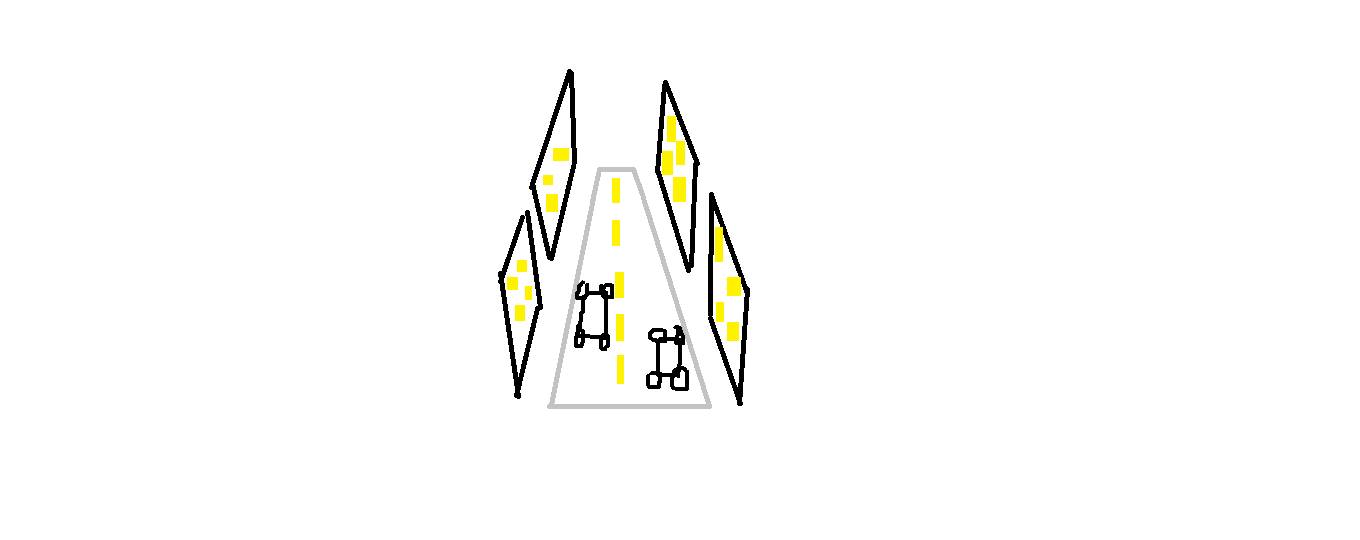
**Design**

Draw/create a basic graphic you plan to build - attach the drawing

(paint, word, photo shop) not every objet (draw one example although there may be several in the final program) needs to be in the basic graphic

Include a task list--what will you need to do and in what order

Estimate the amount of time you will need to complete each part the project



Figuring out how to make the buildings/windows/road – 3 days

Animating the windows – 0.5 days

Animating the cars – 1.5 days

**Construction – included in summary doc**

Document your construction progress with date and progress made (build a chart/table in word or excel), also, include at least three screen shots of your city (beginning, middle, and end)

**Testing/Results/Delivery—summary doc not required to start project**

Preliminary testing

Does your program meet the needs of the initial challenge or problem? How do you know?

Are any changes or modifications needed, why or why not? Document any changes.

Summarize the project - what worked, what didn’t work, note your successes and/or failures.

Looking back, would you have done anything differently, why or why not

Software Summary Document

Daily Progress Report

|  |  |
| --- | --- |
| Date | Description |
| January 26, 2022 | I want to get started/complete the windows |
| January 27, 2022 | I want to fix the slant of the top of the buildings |
| January 28, 2022 | I want to fix the window issues caused by the different slant |