CS 405 Assignment 2

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29200

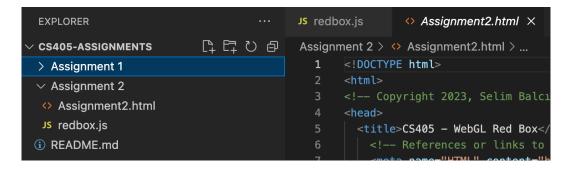
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Introduction:

In this assignment, we were tasked with changing a given fragment shader's color from red to blue.

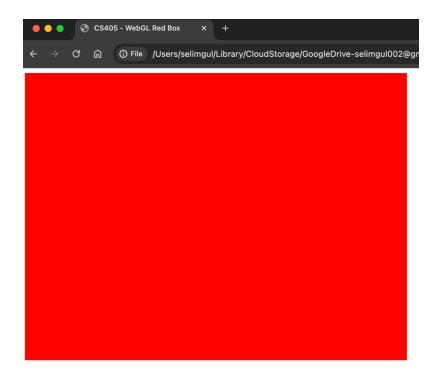
Methodology:

This assignment was not particularly challenging. As a first step, I have downloaded the folder from SUCourse, and then imported it into my existing git repository for CS 405 assignments. Thereafter, I have opened the downloaded folder in Visual Studio Code and started working on it. There were two files, namely *Assignment2.html* and *redbox.js*



We were asked to not change anything in Assignment2.html.

When I first opened the HTML file, the output was the following:



We were asked to change the color of this rectangle from red to blue. Its color was defined in the following way:

The vec4 on line 7 is a function creating a four-component vector, which is being assigned to *gl FragColor*. These four components represent different properties of the color:

R (Red): The first value 1.0 represents the red component of the color. The range is from 0.0 (no red) to 1.0 (full red).

G (Green): The second value 0.0 is for the green component of the color. The range is from 0.0 (no green) to 1.0 (full green).

B (Blue): The third value 0.0 is for the blue component of the color. The range is from 0.0 (no blue) to 1.0 (full blue).

A (Alpha): The fourth value 1.0 represents the alpha component, which is essentially the opacity of the color. The range is from 0.0 (fully transparent) to 1.0 (fully opaque).

Using this knowledge, I have changed the R (Red) component to 0.0 and B (Blue) component to 1.0 to achieve the given task.

Finally, the output was the following:

