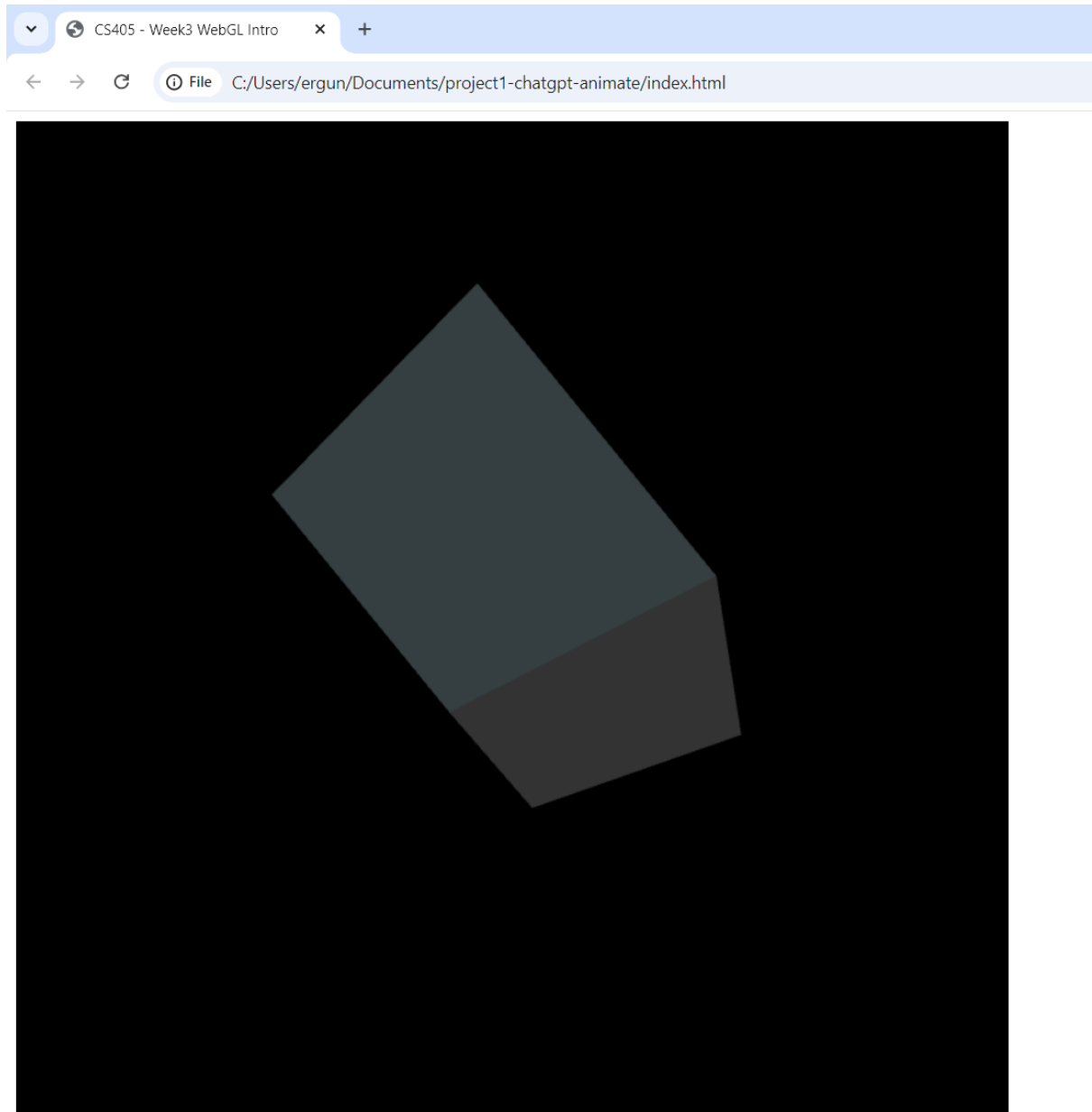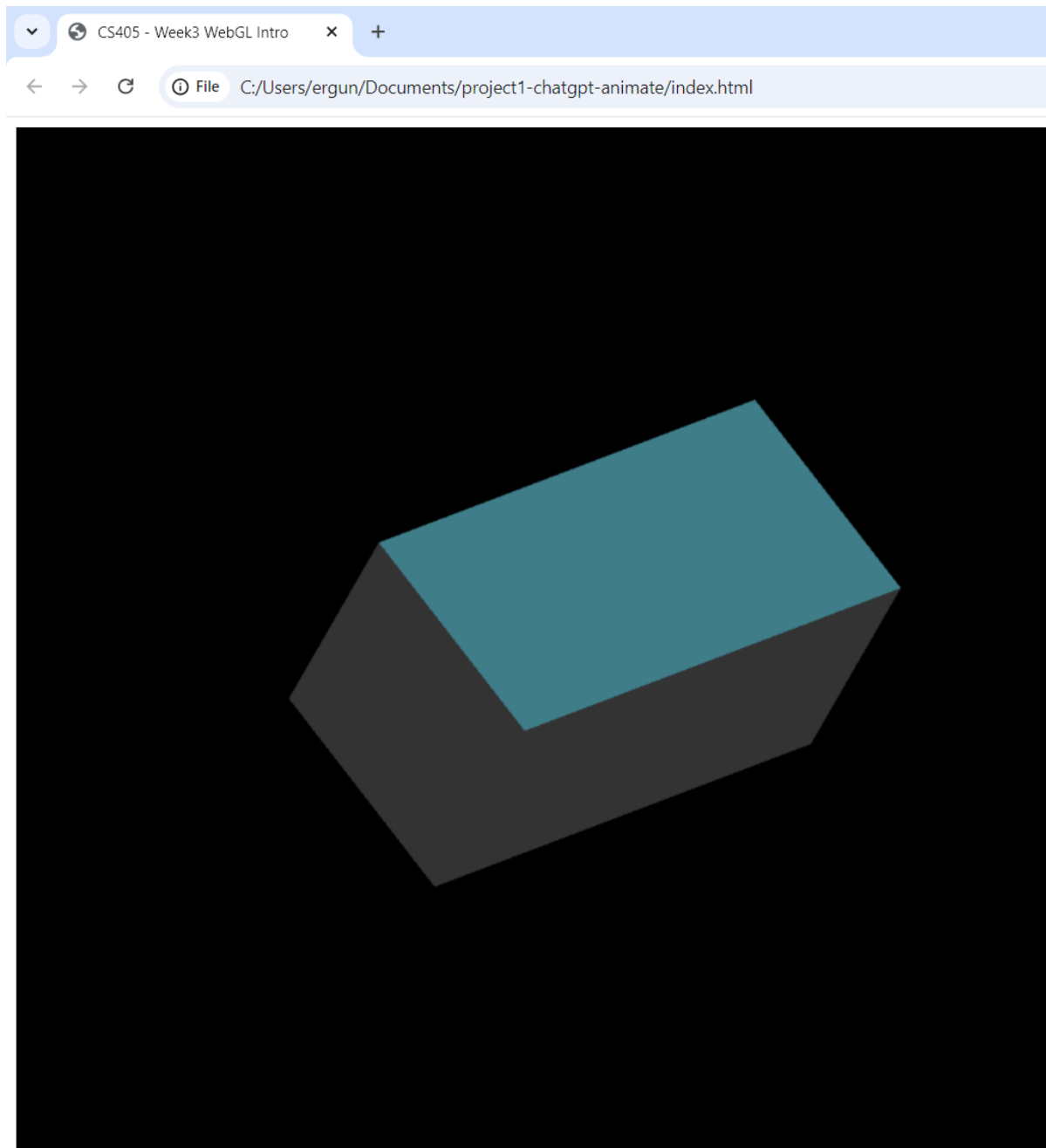# CS 405 Project 1 Report

Task 1:

Prism Generated by the ChatGPT Code

Task 2:

Prism Generated by My Code

As it can be seen from the two pictures that I provided we can understand that the two transformation matrices that ChatGPT and I calculated are different from each other. I thought, the difference between the two transformation matrices is most probably caused by the transformation order of them. ChatGPT calculated its matrix by multiplying in the order of scale matrix, rotation matrix (in z-axis, in y-axis, x- axis), translation matrix. Then the function returns the transpose of that transformation matrix. However, my transformation

matrix is obtained by multiplying in the order of rotation matrix (in z-axis, in y-axis, in x-axis), scale matrix, translation matrix and I don't get the transpose of the transformation matrix. To derive these matrices and the matrix multiplication I used the methods, provided in the utils file.