Task 1

<https://chat.openai.com/share/c64204bf-2518-4b3f-b789-ad2ff12bd9f8>

In this first part, I ran the txt command in chatgpt. Then gpt gave me the calculations and then I asked gpt to calculate it himself.

A screenshot of a computer program

Description automatically generated

I cannot put this into getChatGPTModelViewMatrix function so I request to make it decimal form. So Chatgpt gave me same transformationmatrix as normal decimal form.

const transformationMatrix = new Float32Array([

0.8660254, -0.25, 0, 0.15,

0.25, 0.8660254, -0.4330127, -0.125,

-0.4330127, 0, 0.8660254, 0,

0, 0, 0, 1

]);

Then, I run the index file and get: A screenshot of a computer

Description automatically generated

Task 2

I only want to show calculations to gpt to inspire this calculations but I made calculations with my codes. Then by looking at gpt calculations I calculate and transform the matrix in getModelViewMatrix() matrix. I also find this cube different probably chatgpt makes some errors during the calculation. So transformation is more accurate in hand made calculations.(You can see all calculations in utils.js)

Then, I run the index file and get: A screenshot of a computer

Description automatically generated

Task 3

In this part I requested to animation from gpt I gave all index and util file and I give instructions then gpt gave me modifications in utils and index. Moreover, I corrected some bugs to fix animation smooth.

To watch animation please run Index.html

Chat for task 3: <https://chat.openai.com/share/f8c67dda-e076-45b9-926f-4d31e28d45e7>