**Project 1 Report: 3D Animations using ChatGPT**

**CHATGPT LINK:**

[**https://chat.openai.com/share/11819a08-e403-4cd2-a501-2ec4a789222c**](https://chat.openai.com/share/11819a08-e403-4cd2-a501-2ec4a789222c)

**For this task, a predefined transformation matrix was provided. The getChatGPTModelViewMatrix() function uses this matrix as the model view matrix. The getTransposeMatrix() function is employed to transpose the matrix, aligning it with the expected format.**

ekran görüntüsü, tasarım içeren bir resim

Açıklama otomatik olarak oluşturuldu

**Task 2: Calculate ModelView Matrix Using Given Transformations**

**The getModelViewMatrix() function utilizes a series of transformation matrices (translation, scaling, and rotation) to calculate the final model view matrix for the cube. The multiplyMatrices() function handles the matrix multiplication, and the final matrix is returned.**

ekran görüntüsü, tasarım içeren bir resim

Açıklama otomatik olarak oluşturuldu

**Task 3: Implement Animation with ChatGPT Instructions**

**The getPeriodicMovement() function controls the animation based on time. It smoothly transitions the cube from its initial position to the calculated transformation in the first 5 seconds and then returns it to the initial position in the last 5 seconds. Linear interpolation is used for both transitions.**