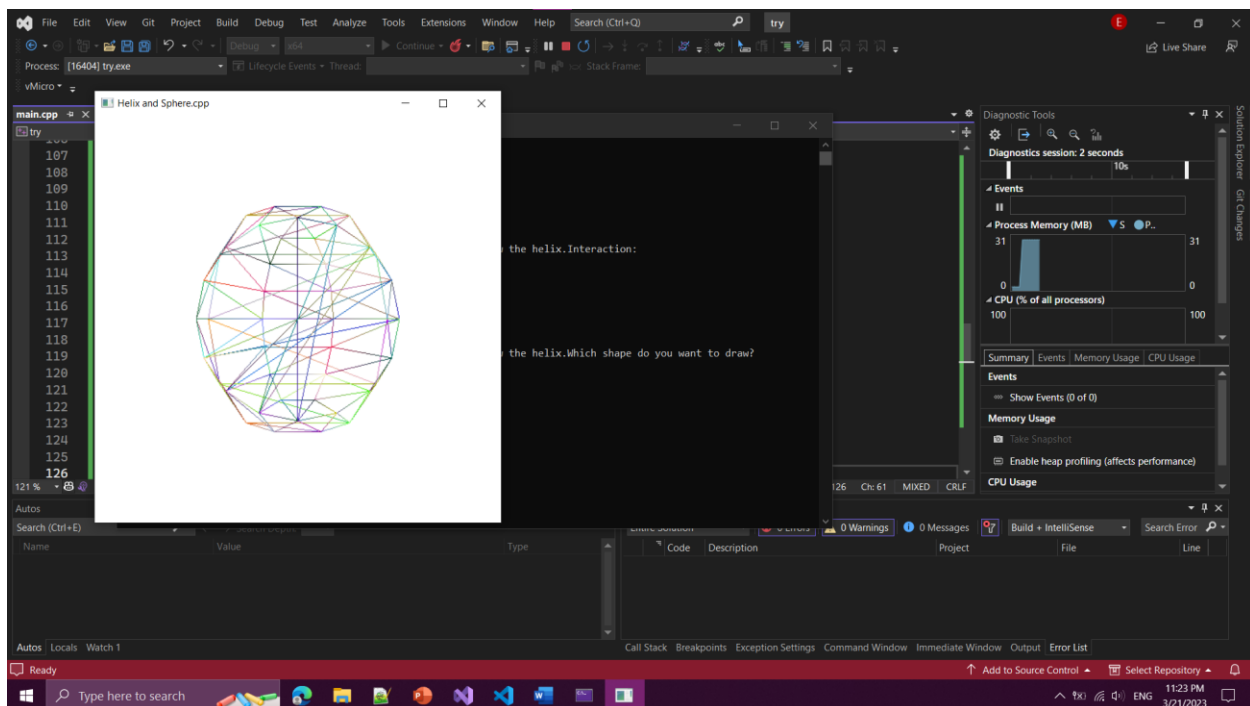


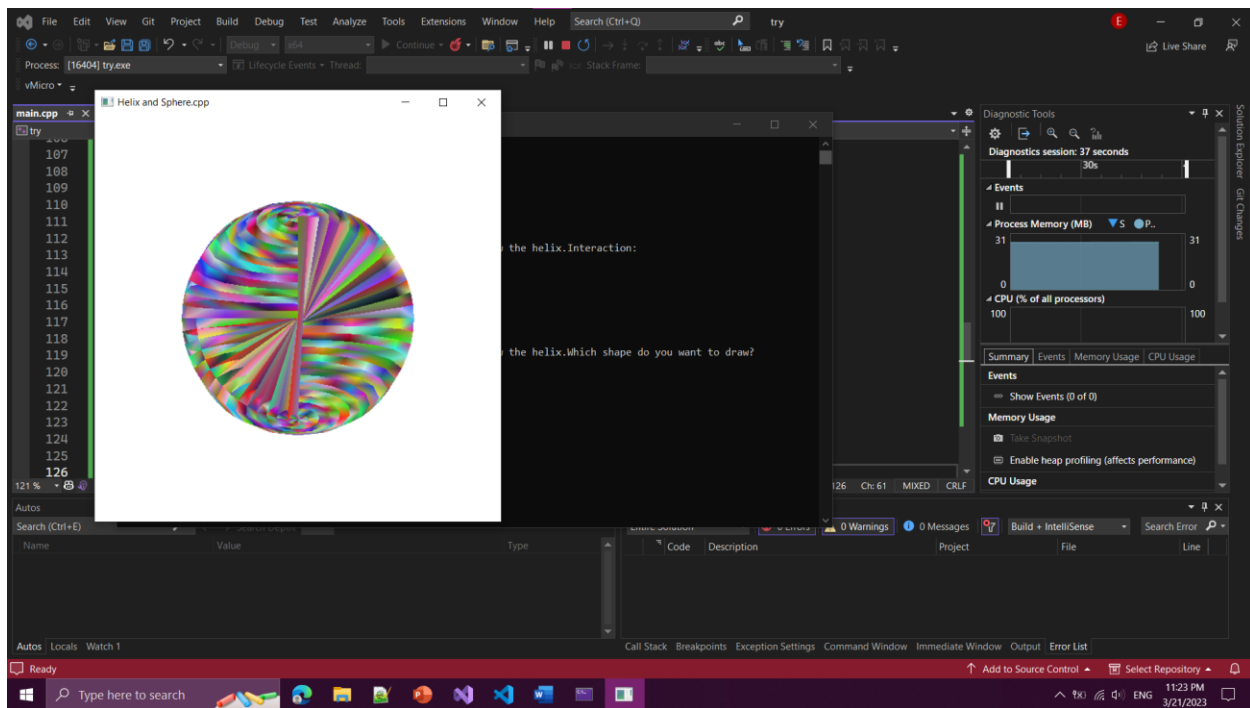
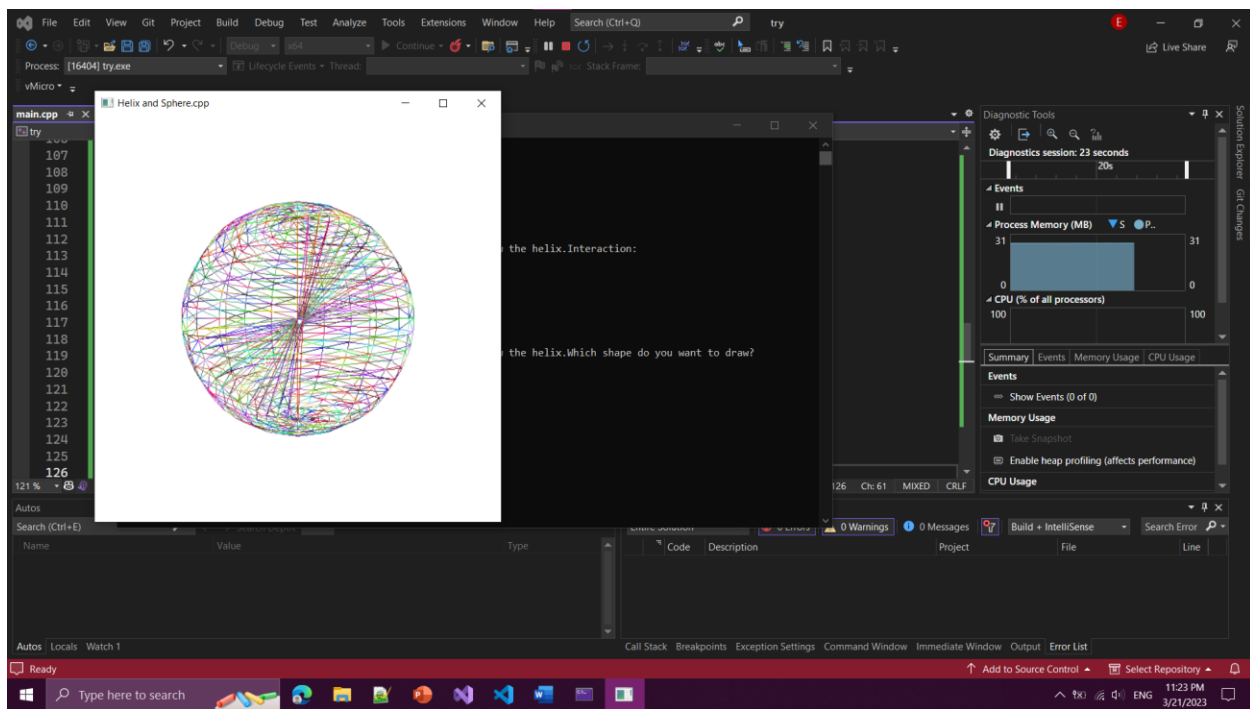
➤ code flow: The program has the following functions:

- setup: sets the clear color for the graphics window.
- drawScene: draws the chosen shape (sphere or helix) using OpenGL, it clears the color buffer and sets up the modelview matrix by translating and rotating the scene based on the user's input. It then checks the user's choice of shape.  
If the user has chosen a sphere, it checks whether the sphere should be drawn in wireframe or filled mode and sets the polygon mode accordingly. It then uses for loops to iterate over each latitudinal triangle strip and draw it using OpenGL commands.  
If the user has chosen a helix, the program sets the polygon mode to GL\_LINE and calculates the coordinates of the helix vertices based on the radius, pitch, and number of vertices. It then uses a for loop to iterate over each vertex and draw it using OpenGL commands.
- The main function, which initializes the graphics window, registers the callback functions, and starts the main graphics loop. It updates the rotation angles based on the elapsed time since the last frame and calls the drawScene function to redraw the scene.
- The loop continues until the user closes the window or quits the program.

➤ screenshots:

- The Sphere:





- The Helix

