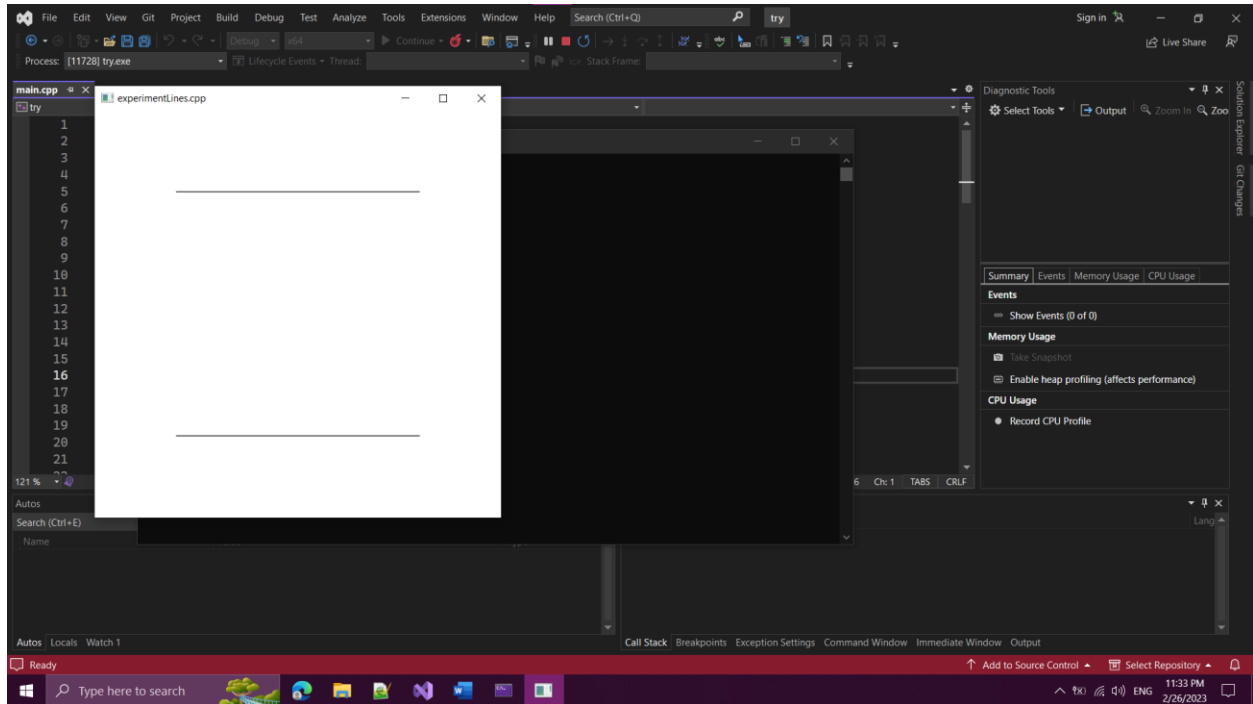


➤ Original Draw:

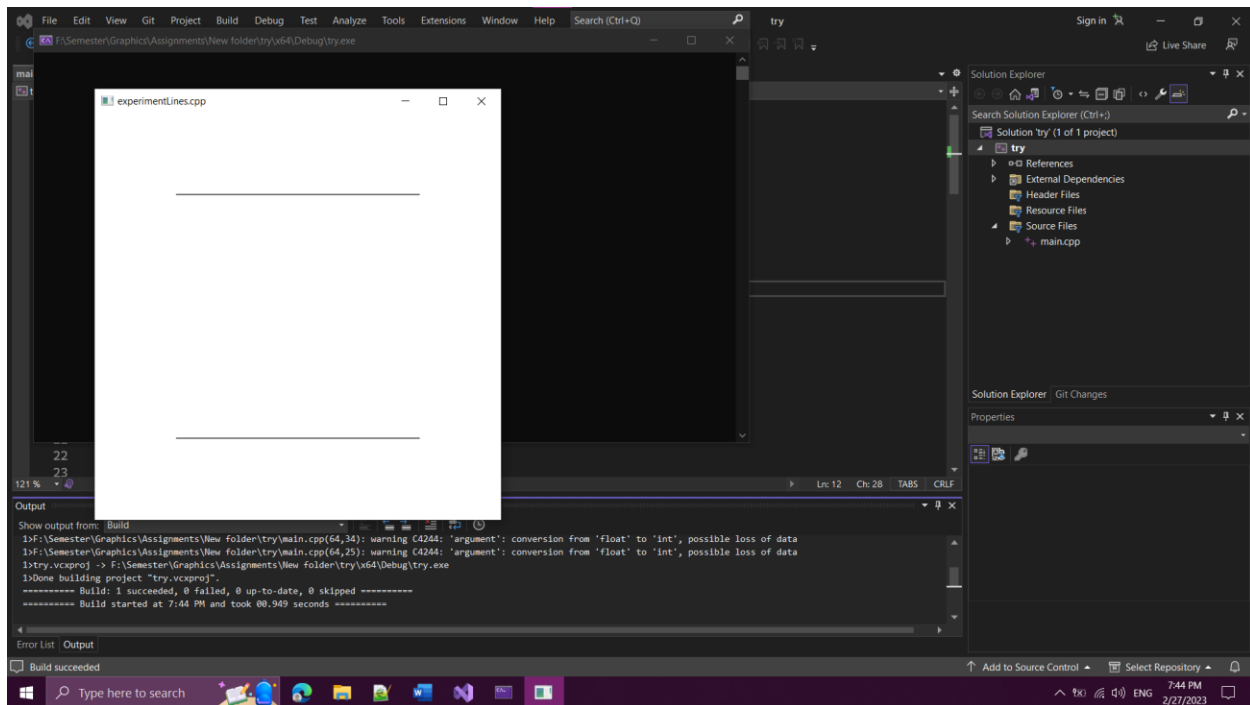


➤ Variables changes:

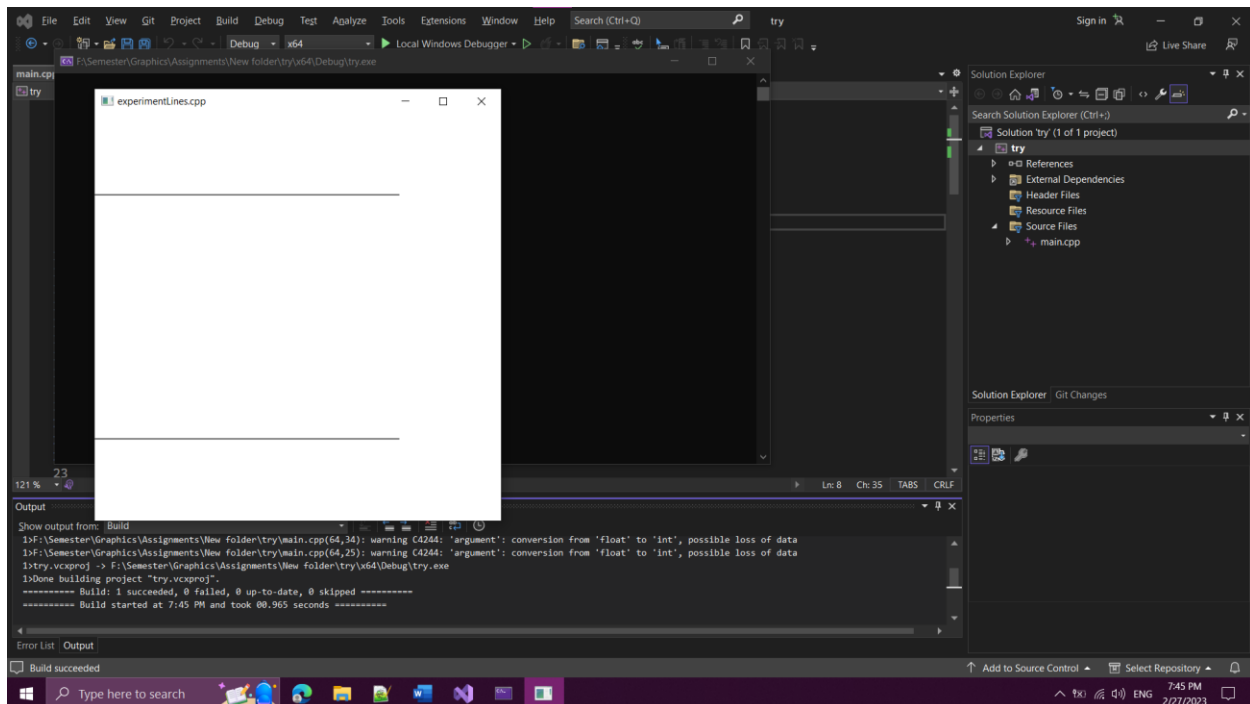
- orthoLeft

As we increase orthoLeft, the left start of the two lines moves left.

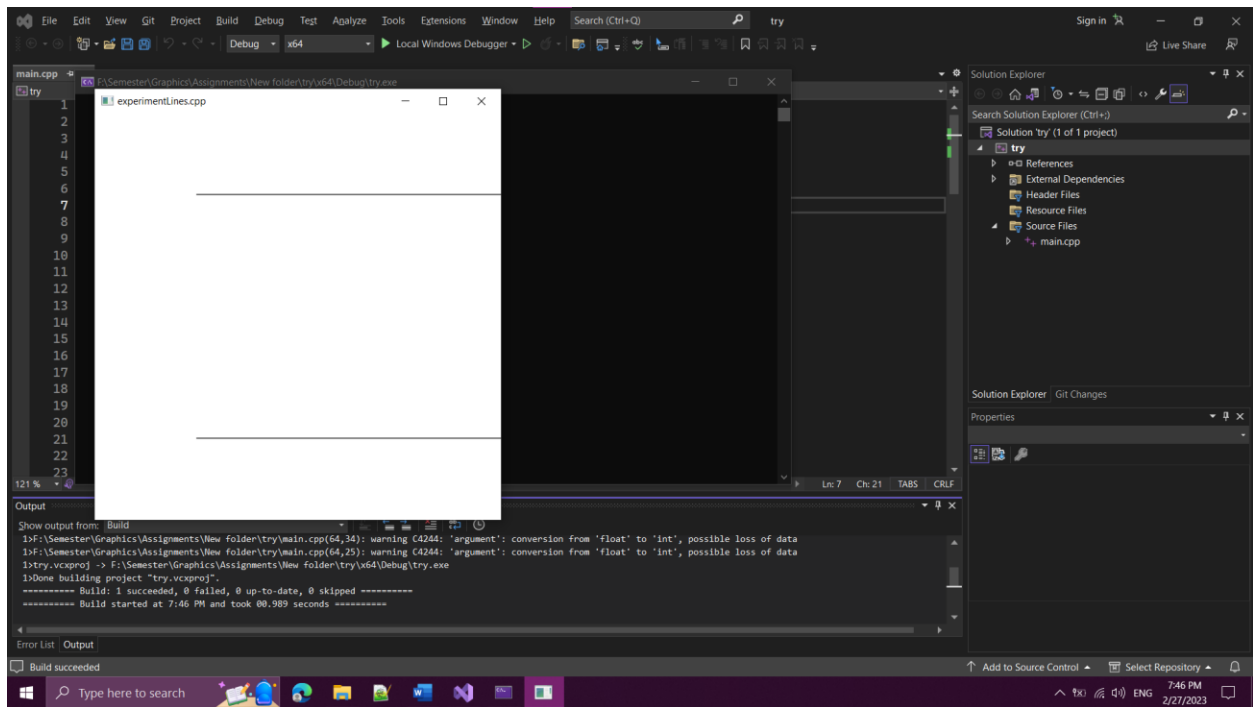
orthoLeft = 0



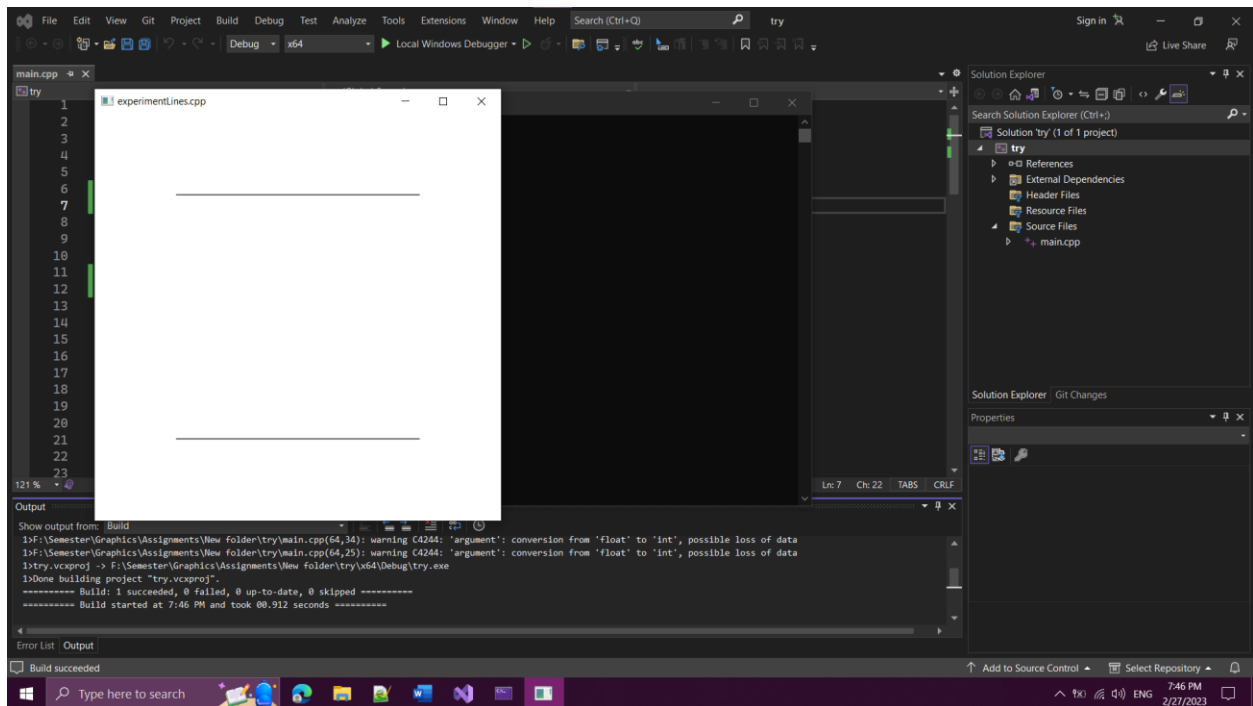
orthoLeft = 20



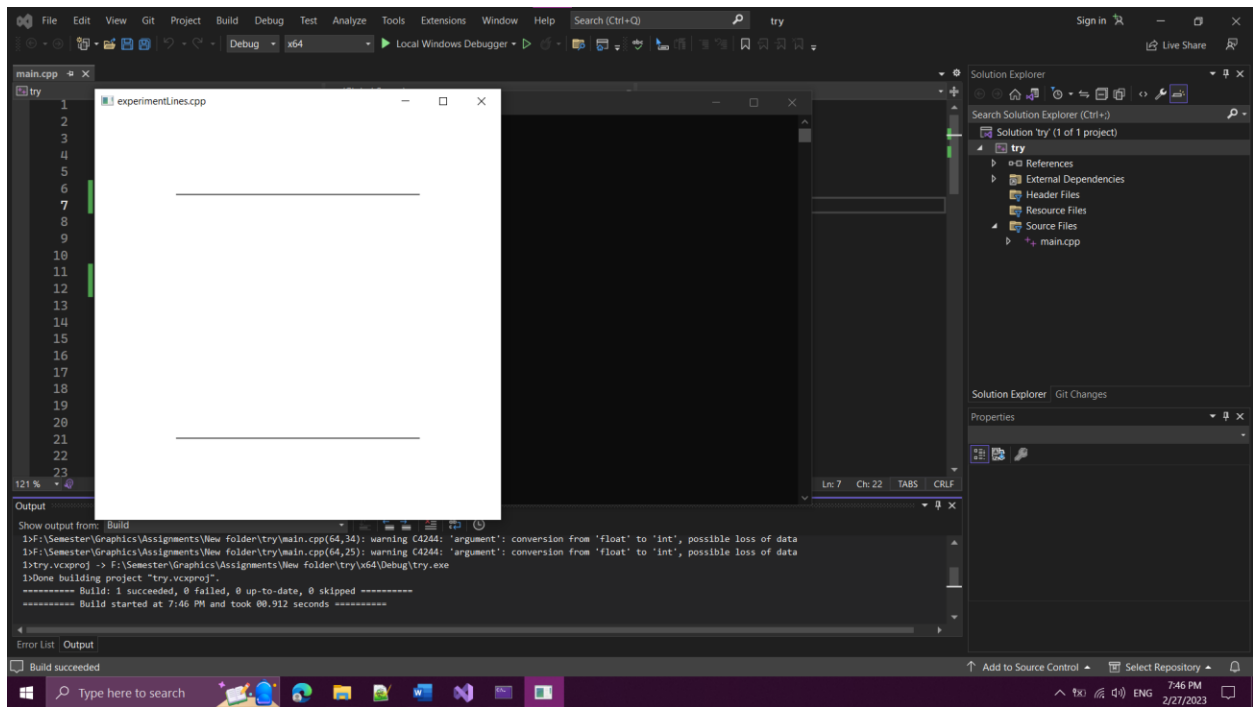
- orthoRight
As we increase orthoRight, the right start of the two lines moves left.
orthoRight = 80



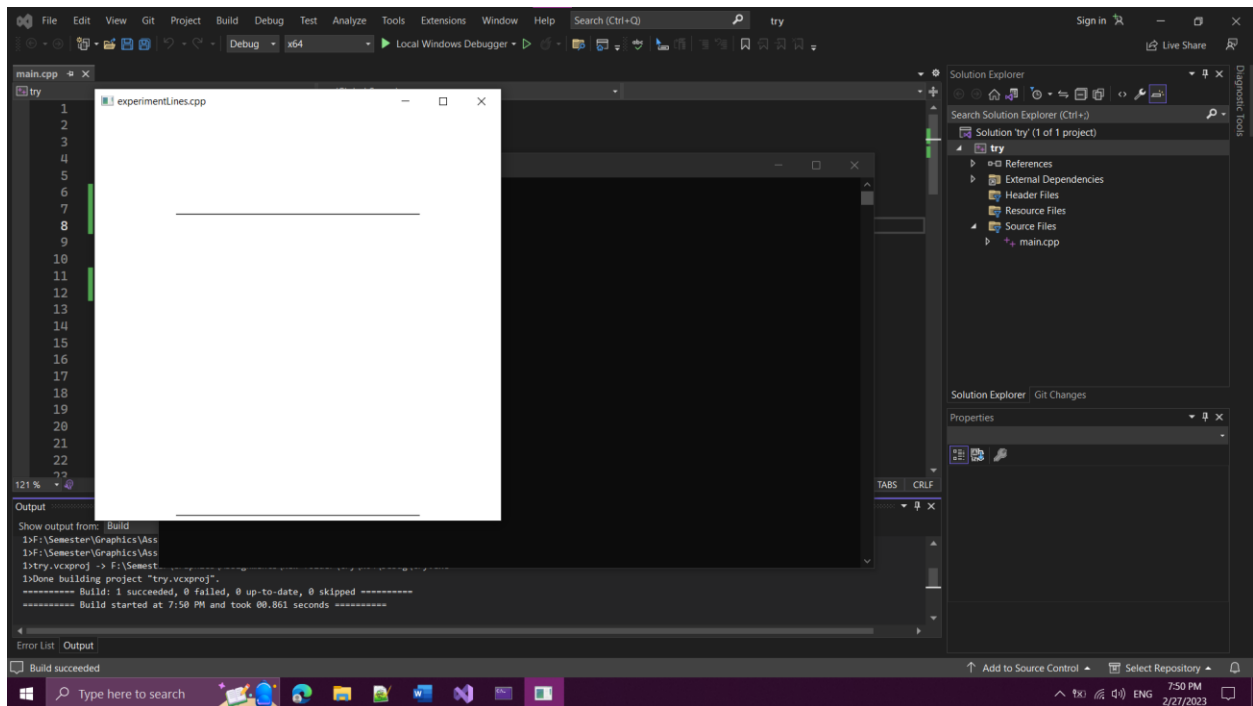
orthoRight = 100



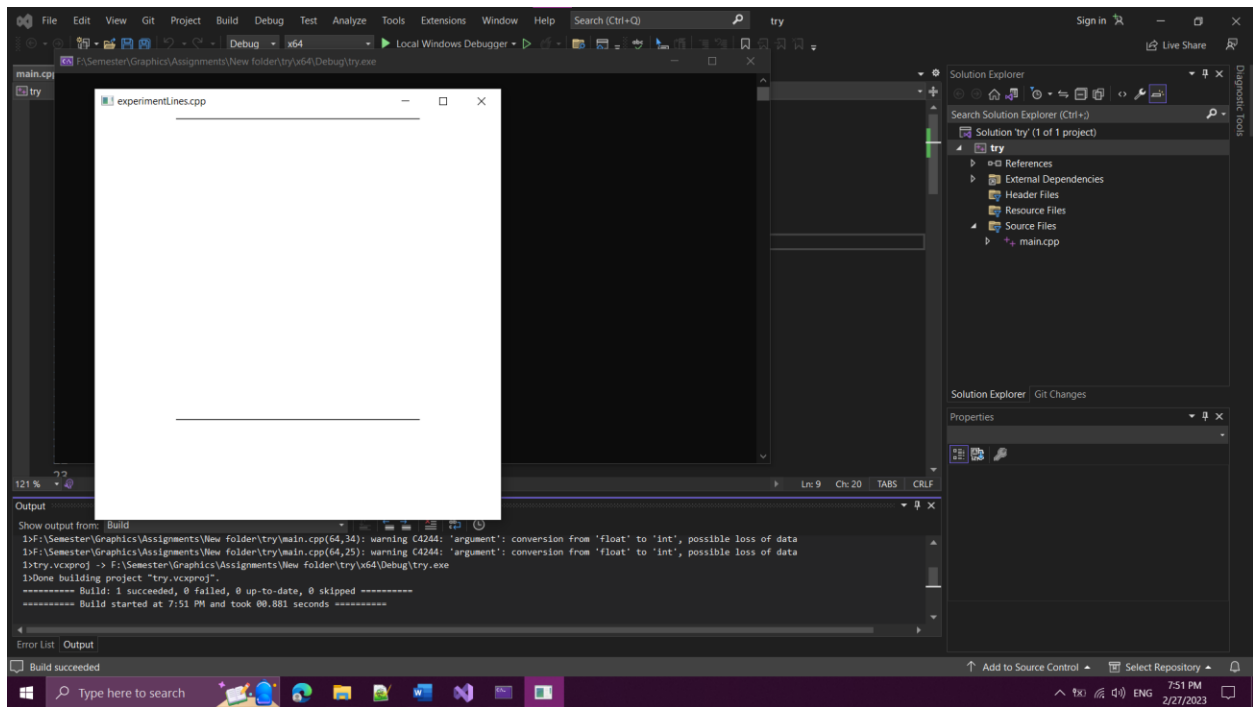
- orthoBottom
As we increase orthoBottom, the two lines move down.
orthoBottom = 0



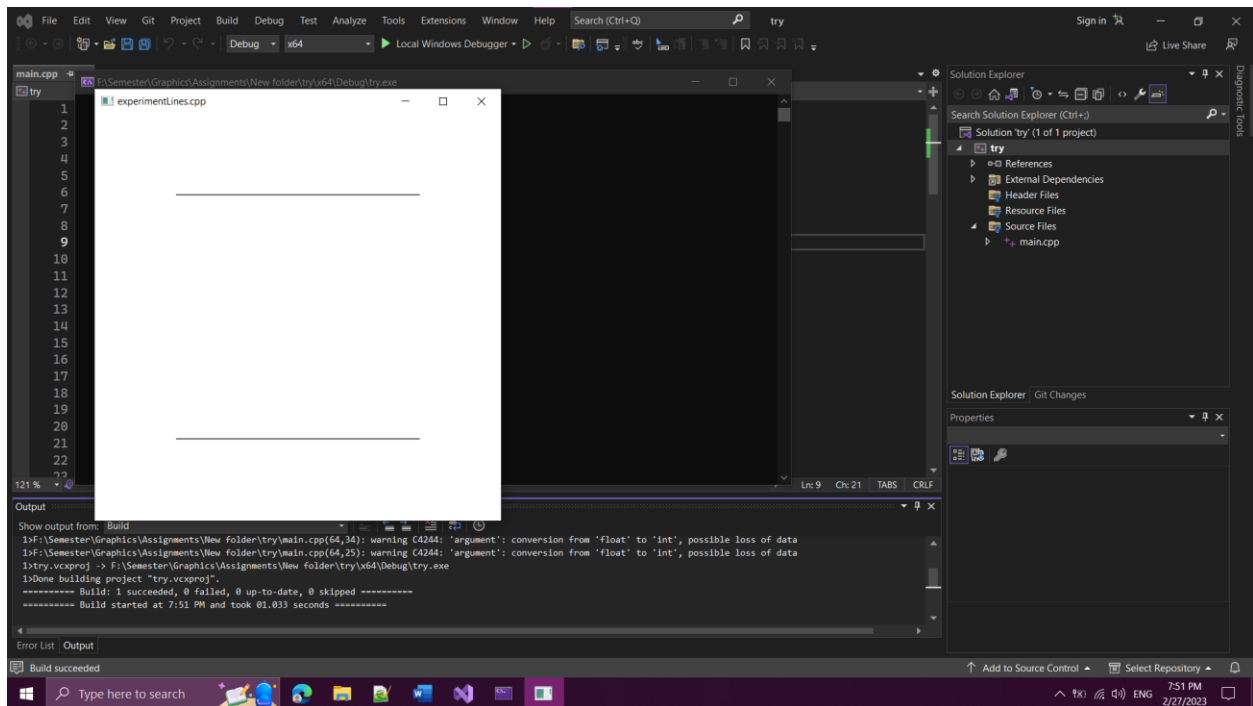
orthoBottom = 19



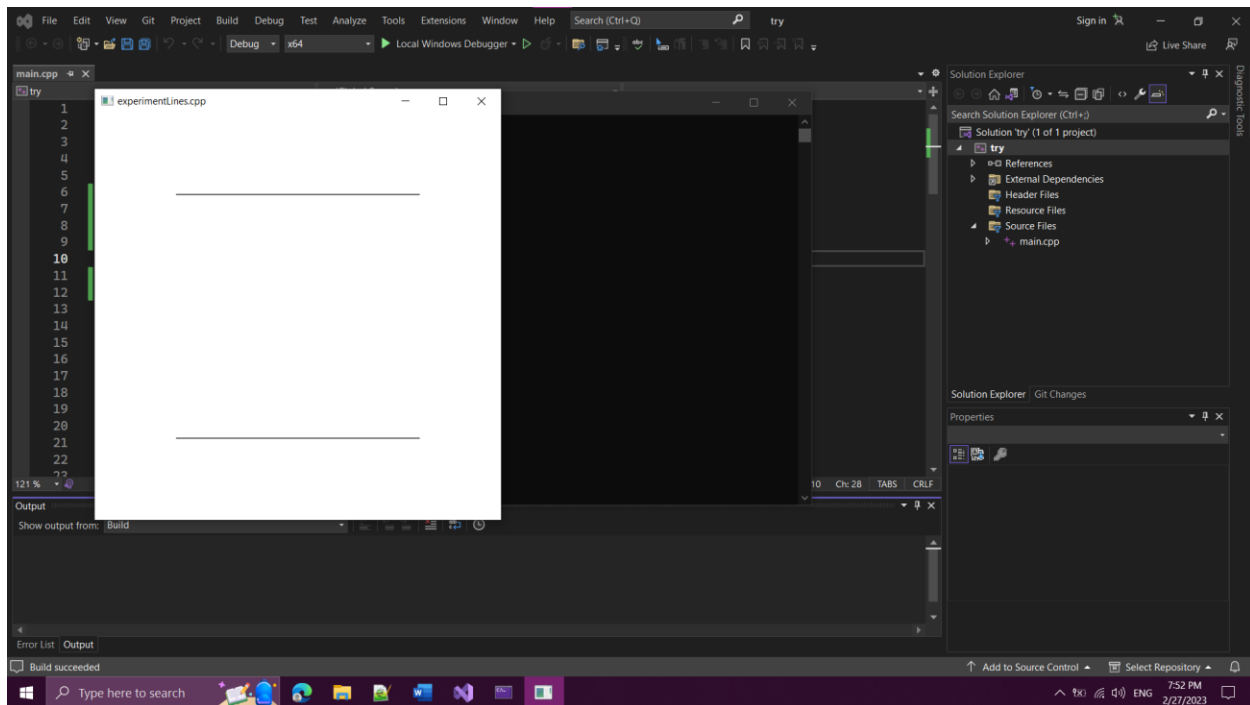
- orthoTop
As we increase orthoTop, the two lines move down.
orthoTop = 81



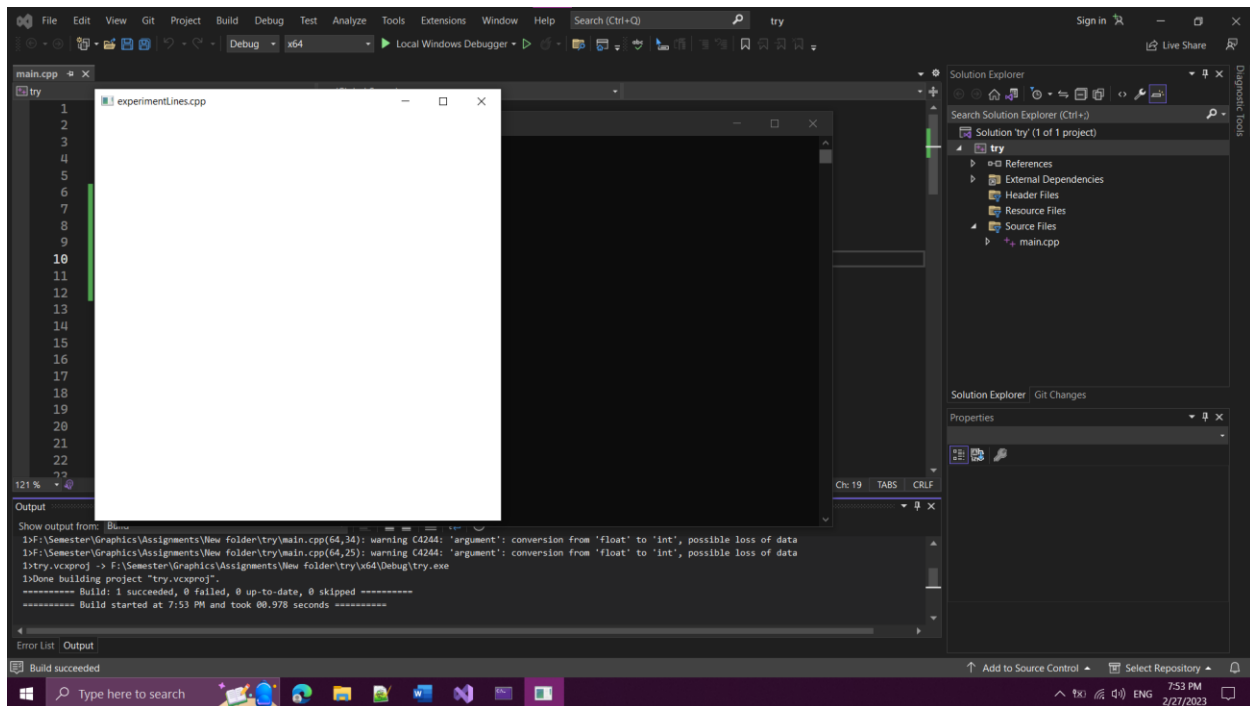
orthoTop = 100



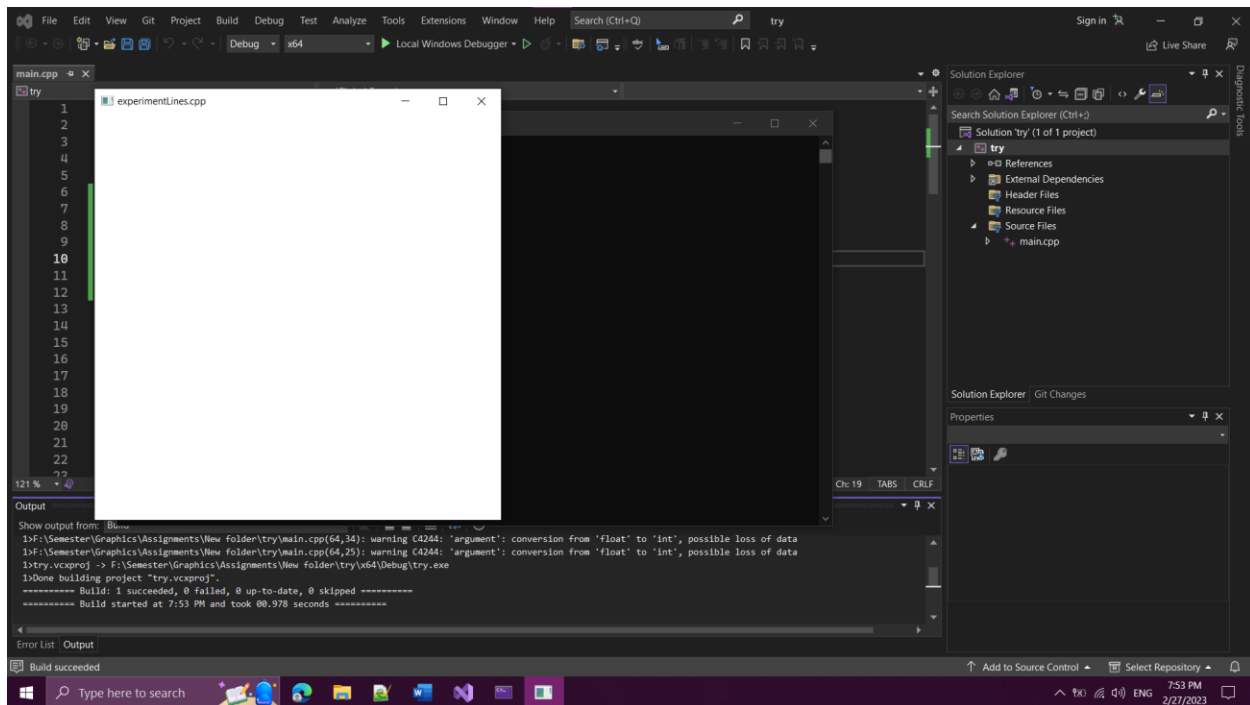
- orthoNear
when orthoNear is positive, the two lines disappear.
orthoNear = -1



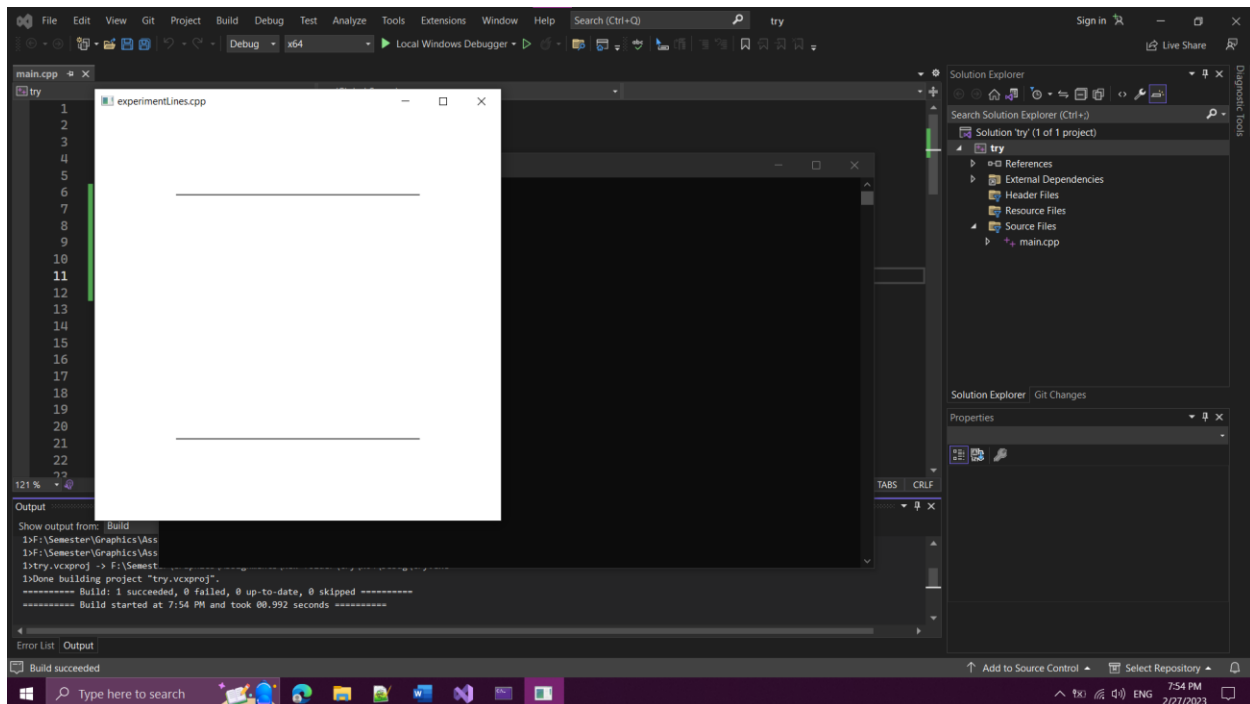
orthoNear = 1



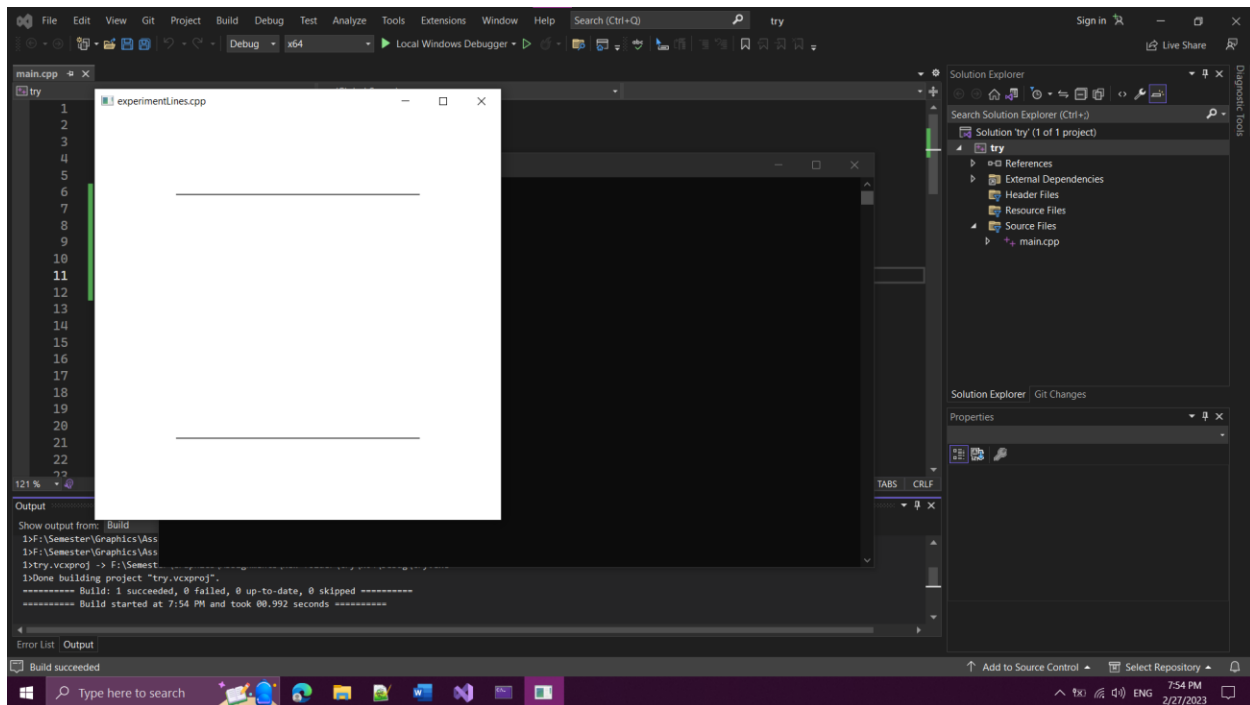
- orthoFar
when orthoFar is negative, the two lines disappear.
orthoFar = -1



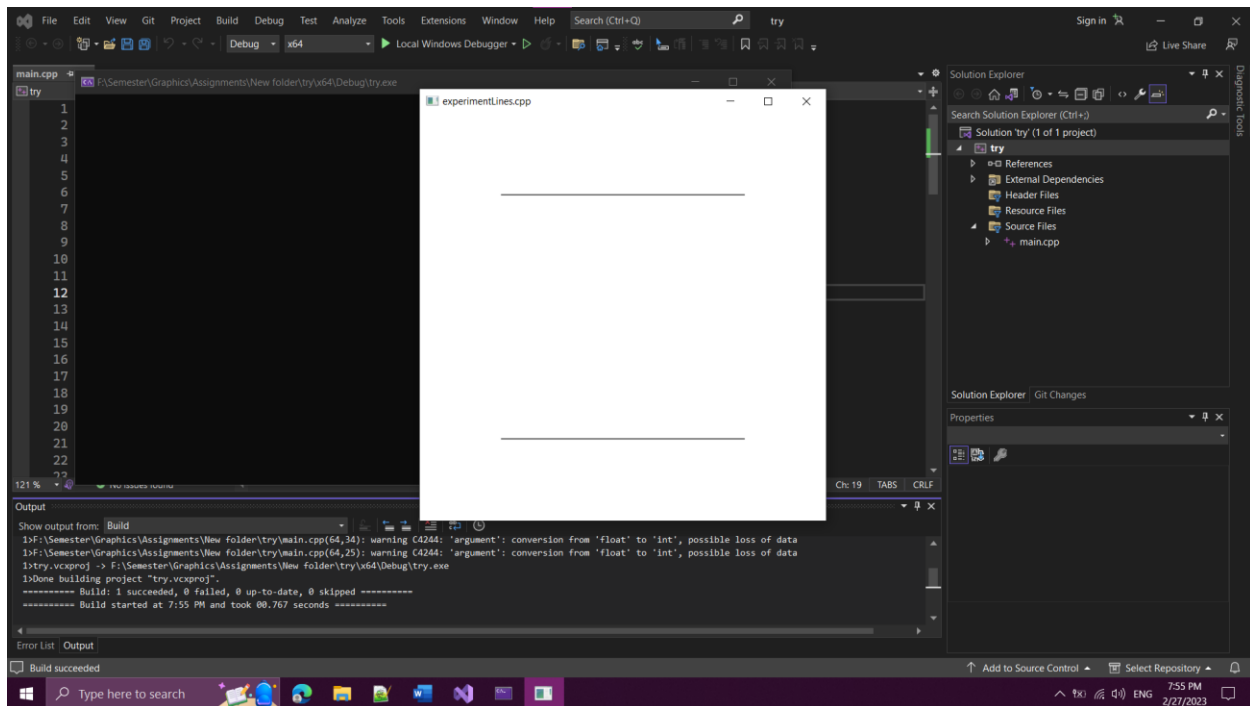
orthoFar = 1



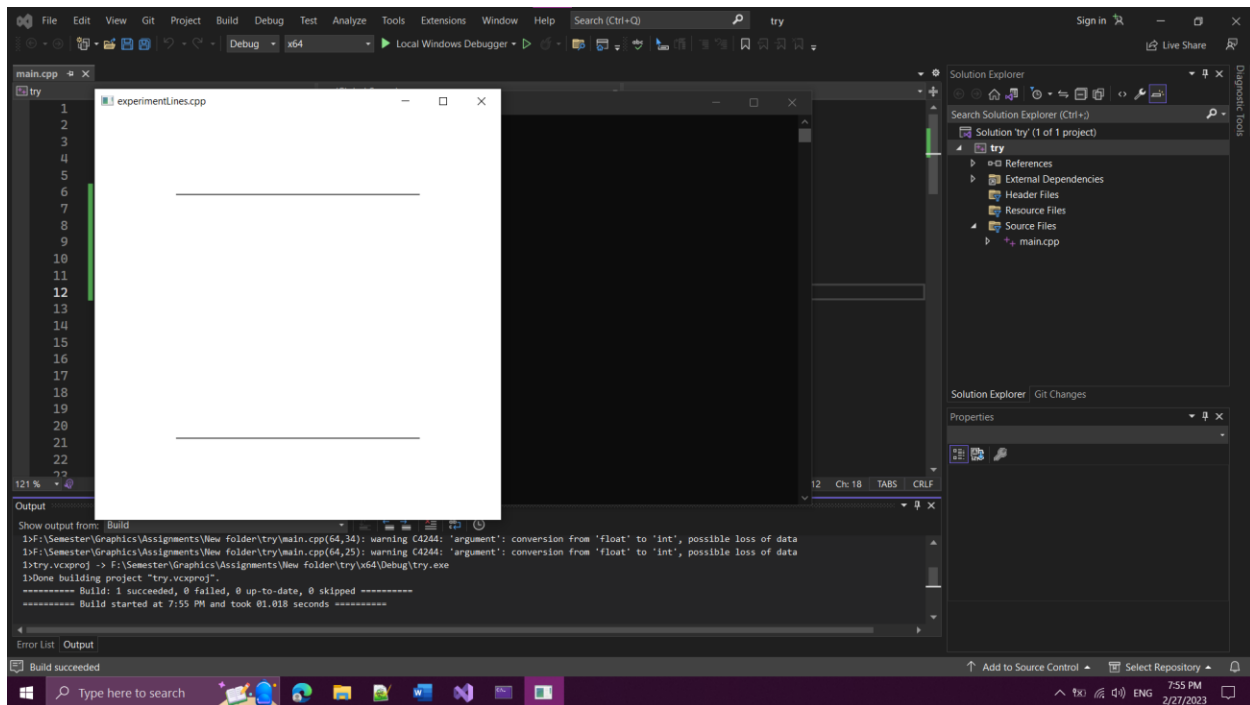
- offsetX
As we increase offsetX, the window of the draws moves right.
offsetX = 100



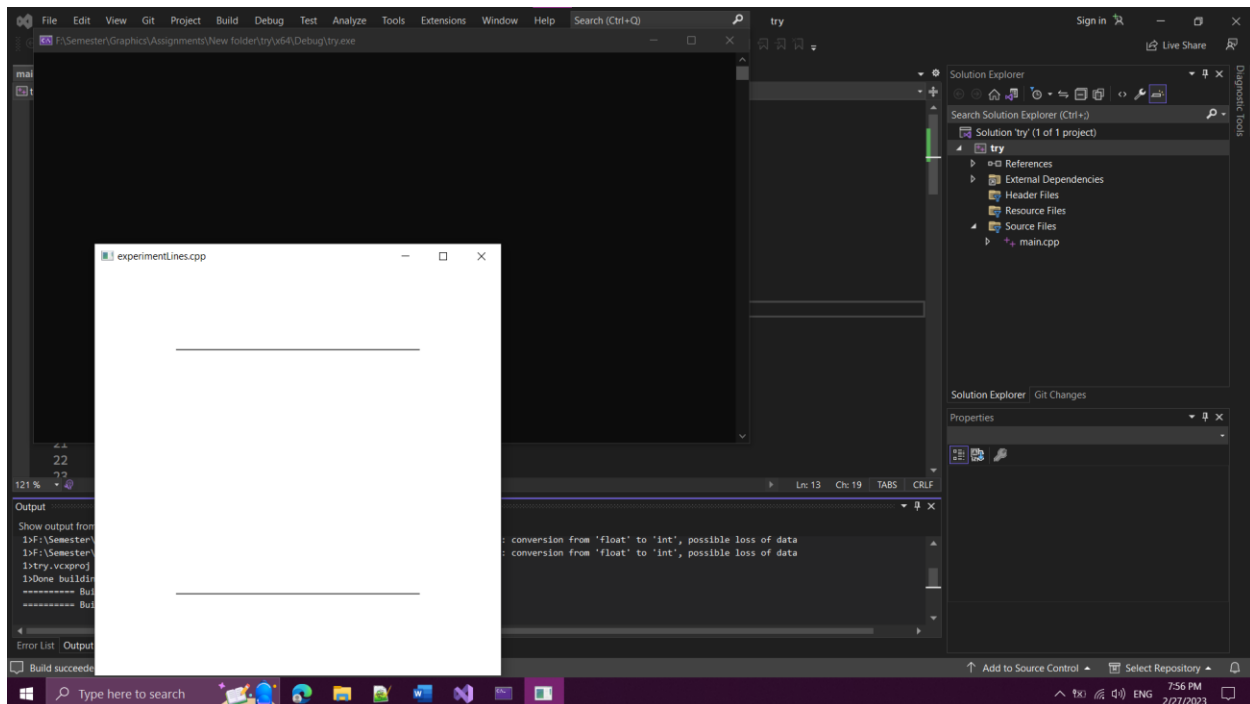
offsetX = 500



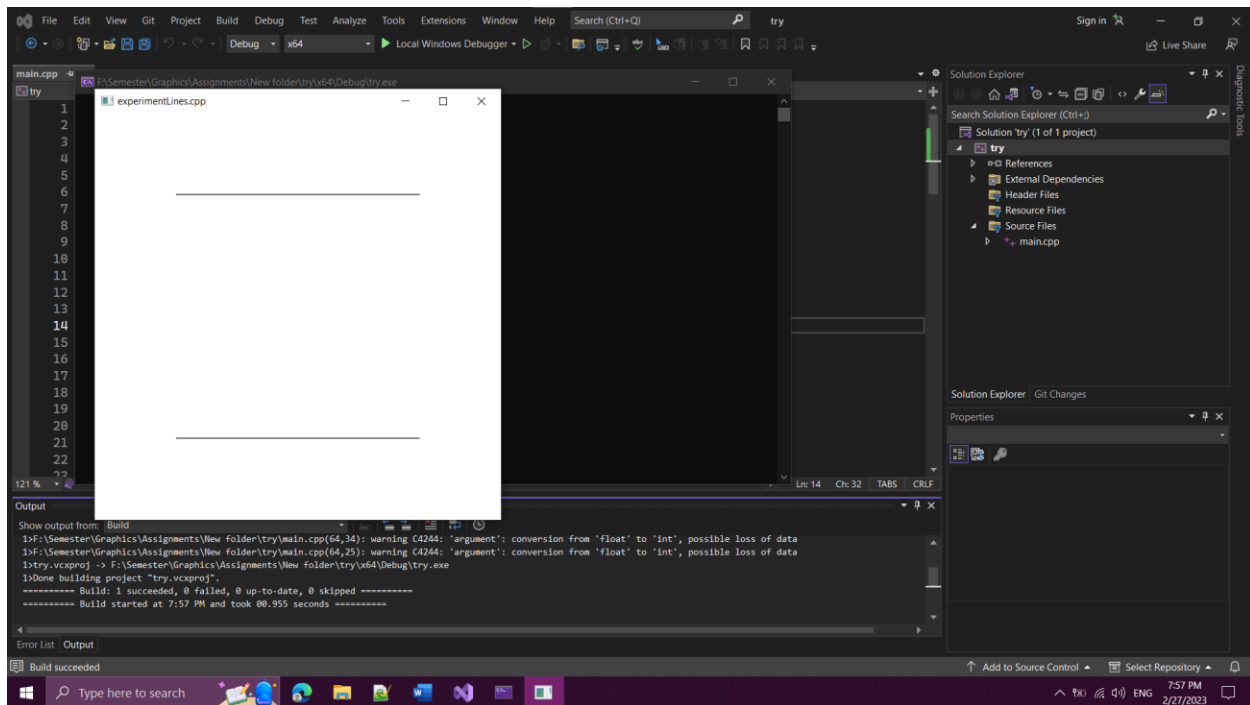
- offsetY
As we increase offsetY, the window of the draws moves down.
offsetY = 100



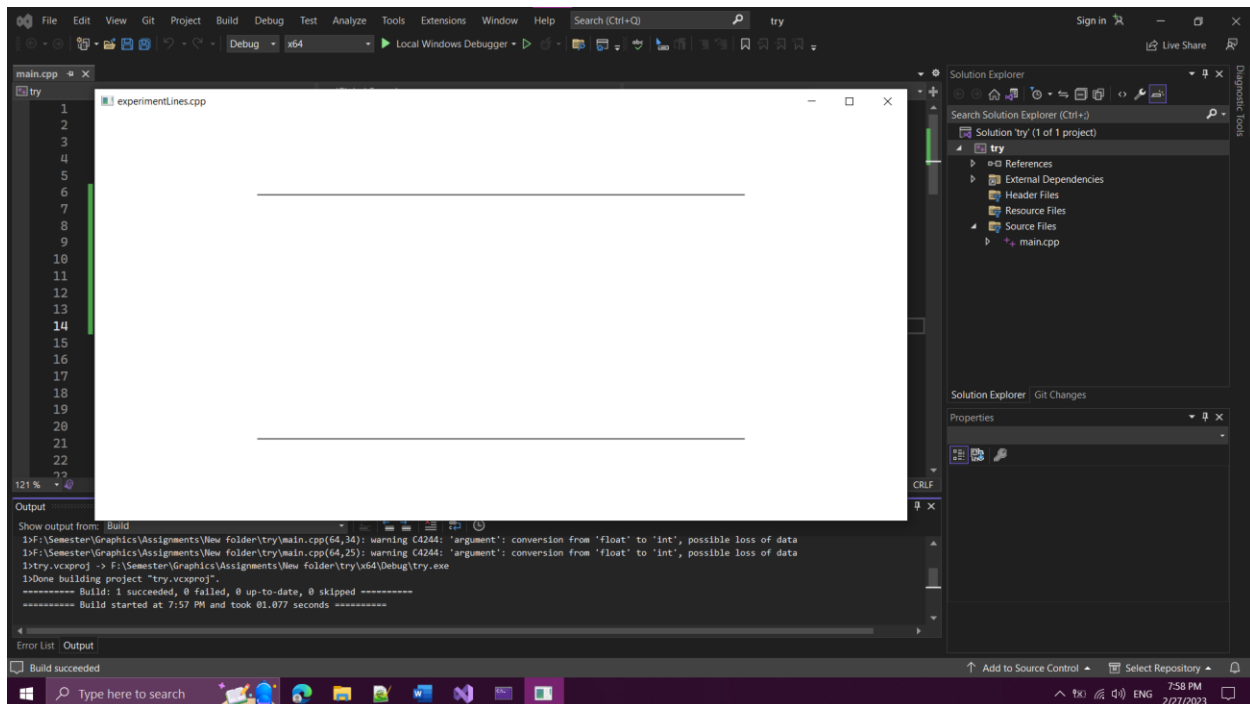
offsetY = 290



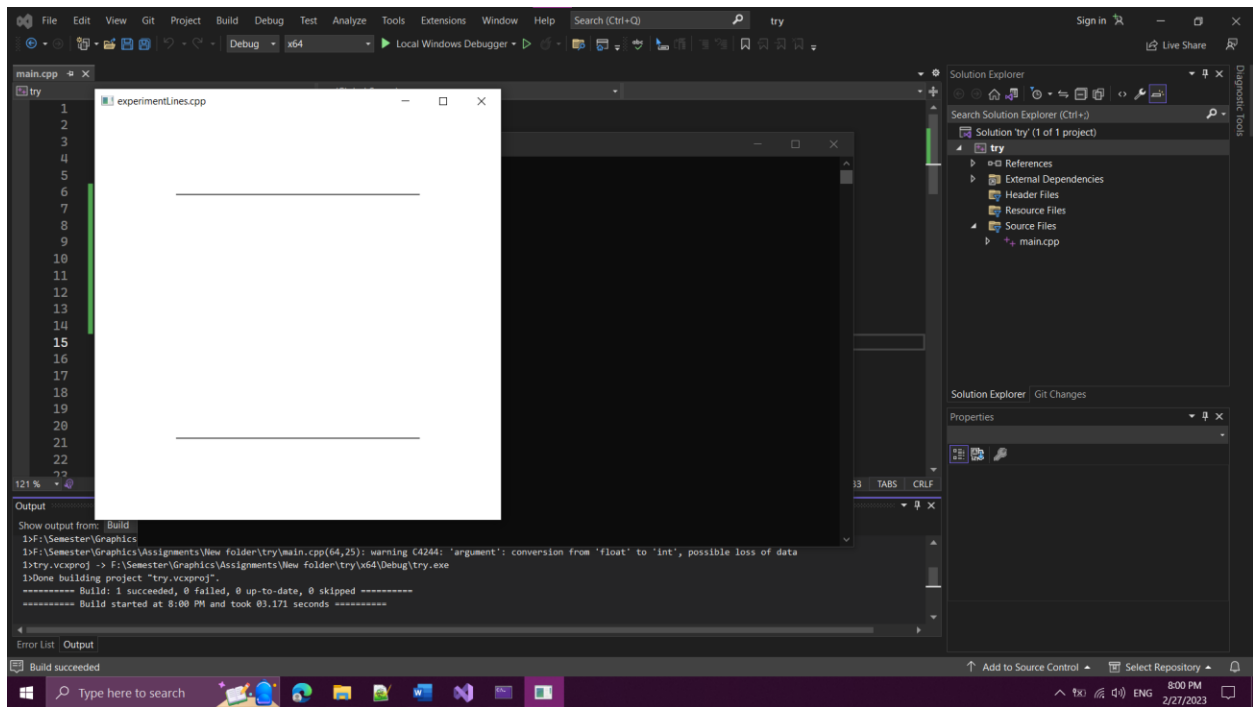
- **windowWidth**
As we increase windowWidth, the width of the window of the draws increases.
windowWidth = 500



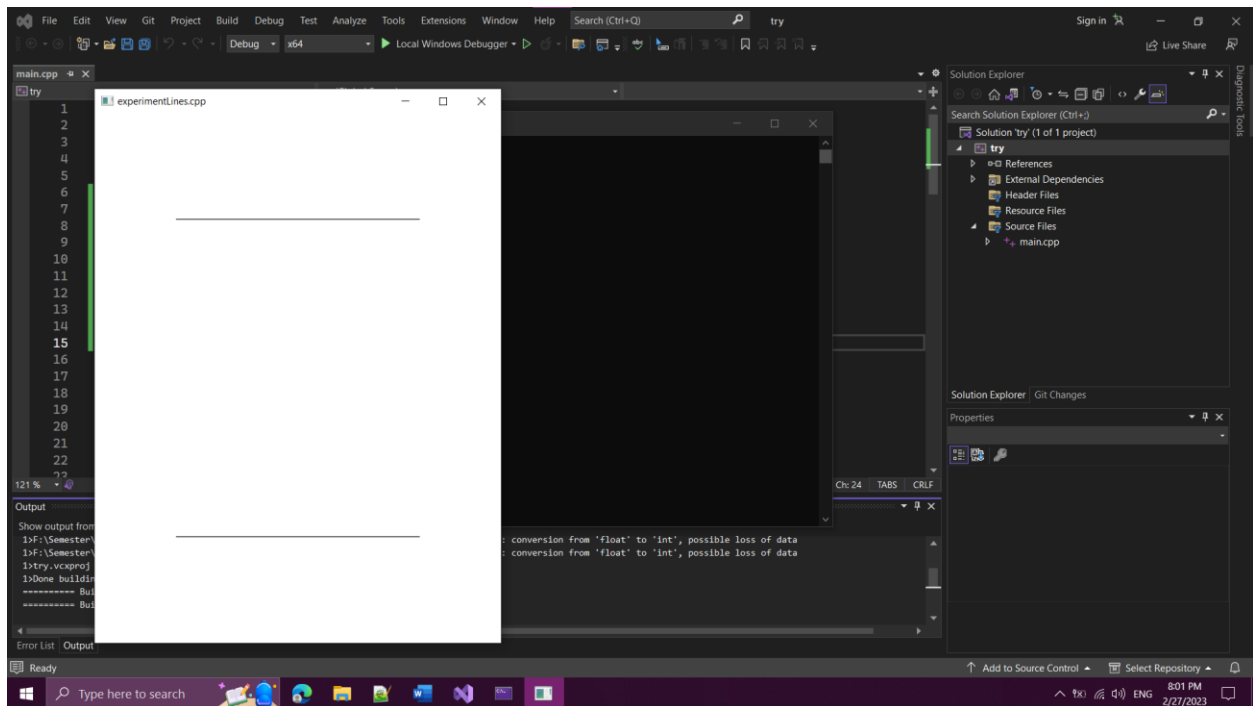
windowWidth = 1000



- windowHeight
As we increase windowWidth, the height of the window of the drawings increases.
windowHeight = 500



windowHeight = 650



➤ Deduction:

The origin (0, 0) is located at the top-left corner, with x-axis pointing right and y-axis pointing down. The Coordinate System is the Right-Hand Coordinate System (RHS): the x-axis is pointing right, y-axis is pointing up, and z-axis is pointing out of the screen.

➤ Resources:

[3D Graphics with OpenGL - The Basic Theory \(ntu.edu.sg\)](http://ntu.edu.sg)