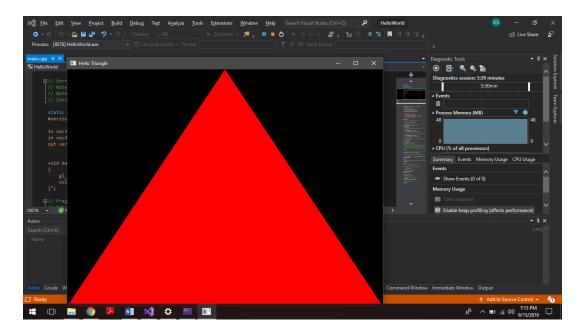
1. Setup:

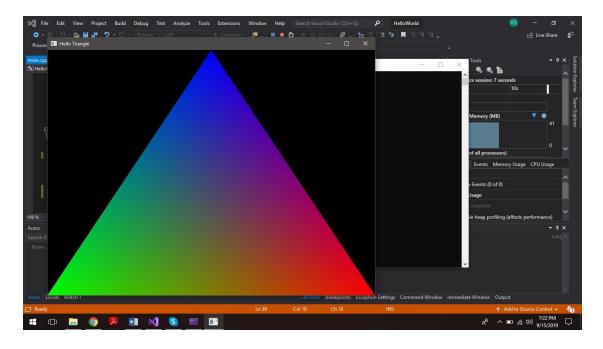
After replacing the main.cpp file and making changes in the properties of the project, a red triangle appears on running the project, as expected.



2. Exercises:

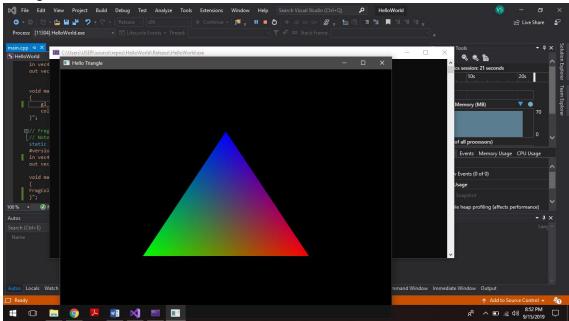
2.1. Multi colored Triangle:

After linking the input of vertex shader to fragment shader, the desired output is obtained.



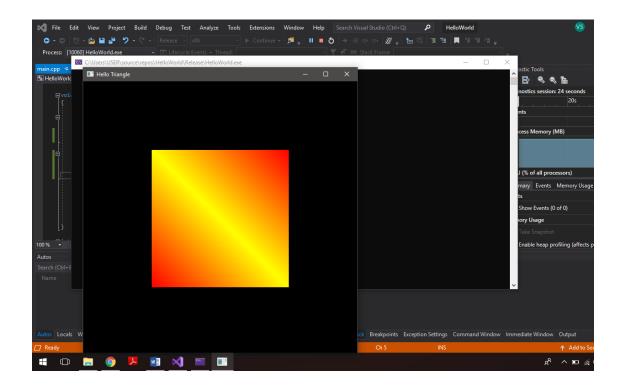
2.2. Reducing the size of triangle by half without changing the vertices:

Could be done in multiple ways. The simplest way is to multiply the position vector by the scaling value, which in this case is 0.5. Other option is to make a translation matrix and multiply the position vector with it. Lastly we can use the function, glscalef(x,y,z) for the scaling.



2.3. Change the Triangle to a Square:

By amending the number of vertices and colors accordingly and reflecting those changes in the display(), linkCurrentBufferToShader() and generateObjectBuffer() functions, we can convert the triangle into square successfully.



Submitted By: Vishwatmika Srivastava M.Sc. Computer Science (AR/VR) 19332239