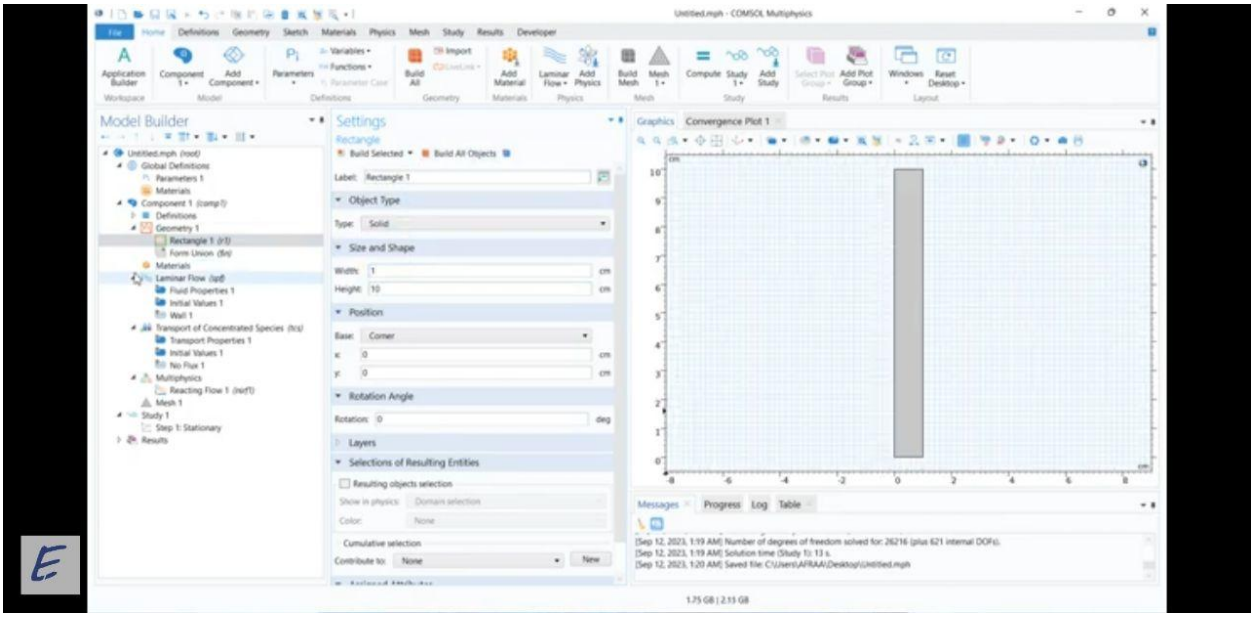
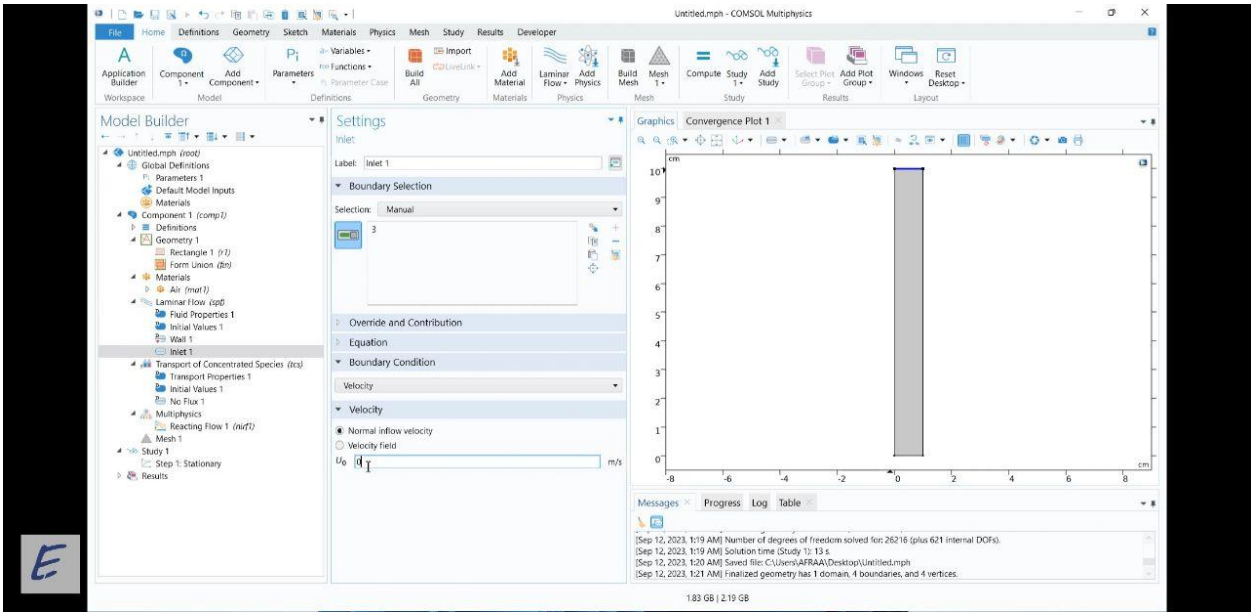
Computing chemical reaction flow

Start by drawing the geometry as shown below:

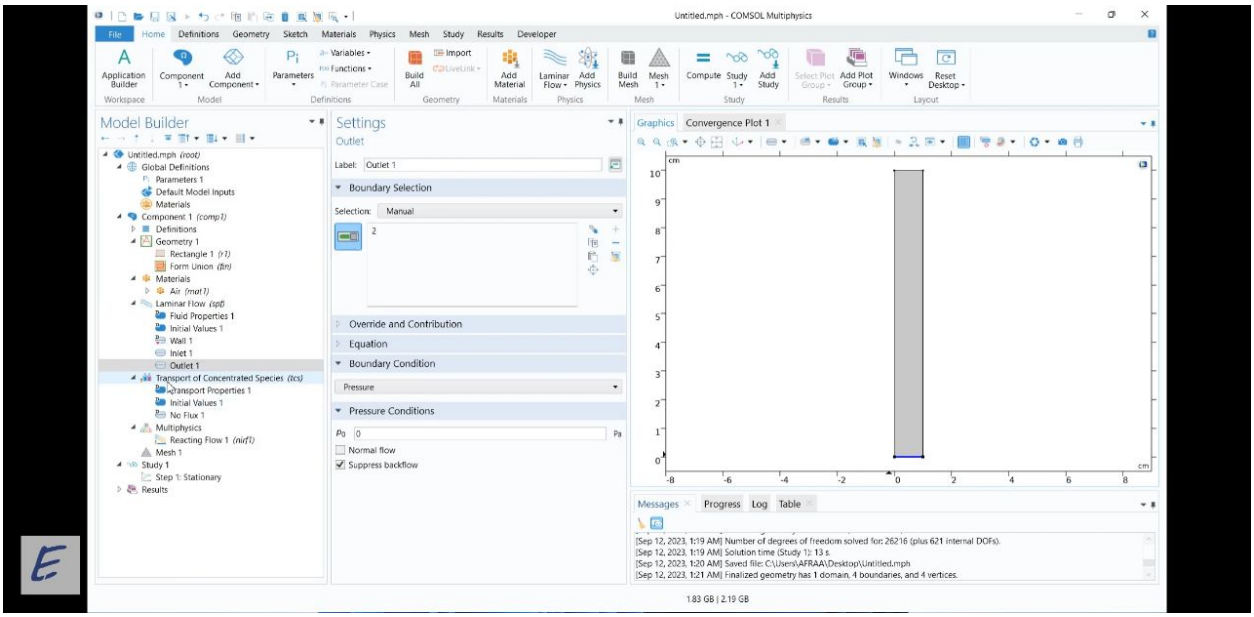


Apply the inlet boundary condition to the geometry:

Email : Abrar.Abdulkareem.Saeed@uomus.edu.iq

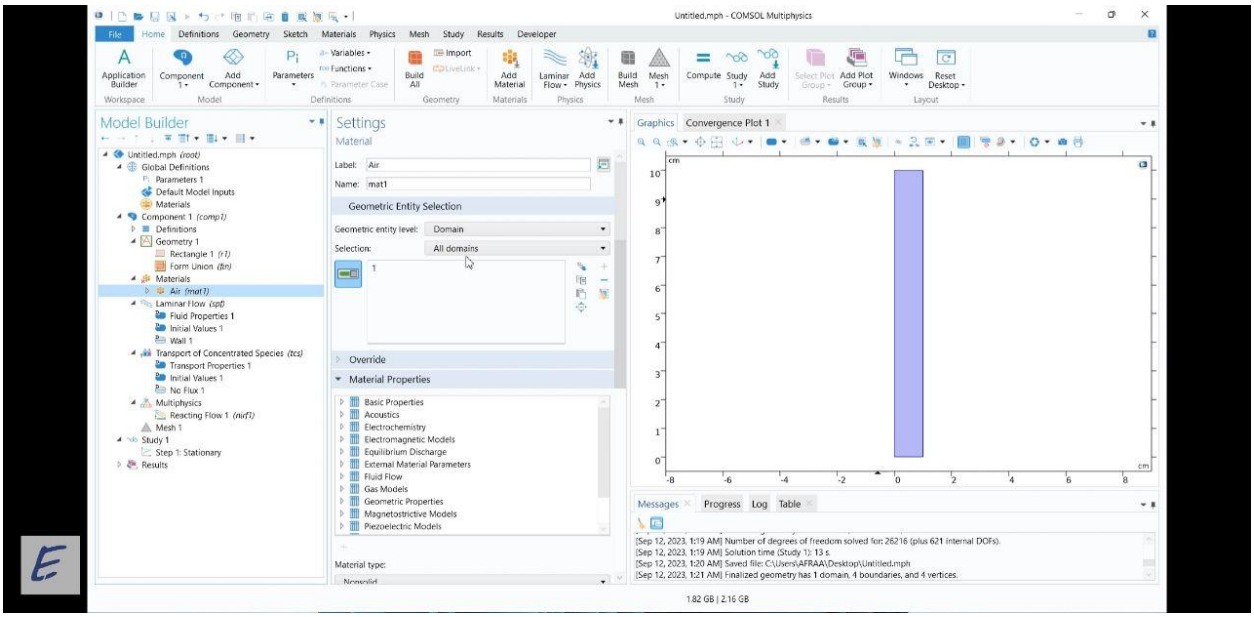


Also apply the outlet boundary condition within the laminar flow physics:

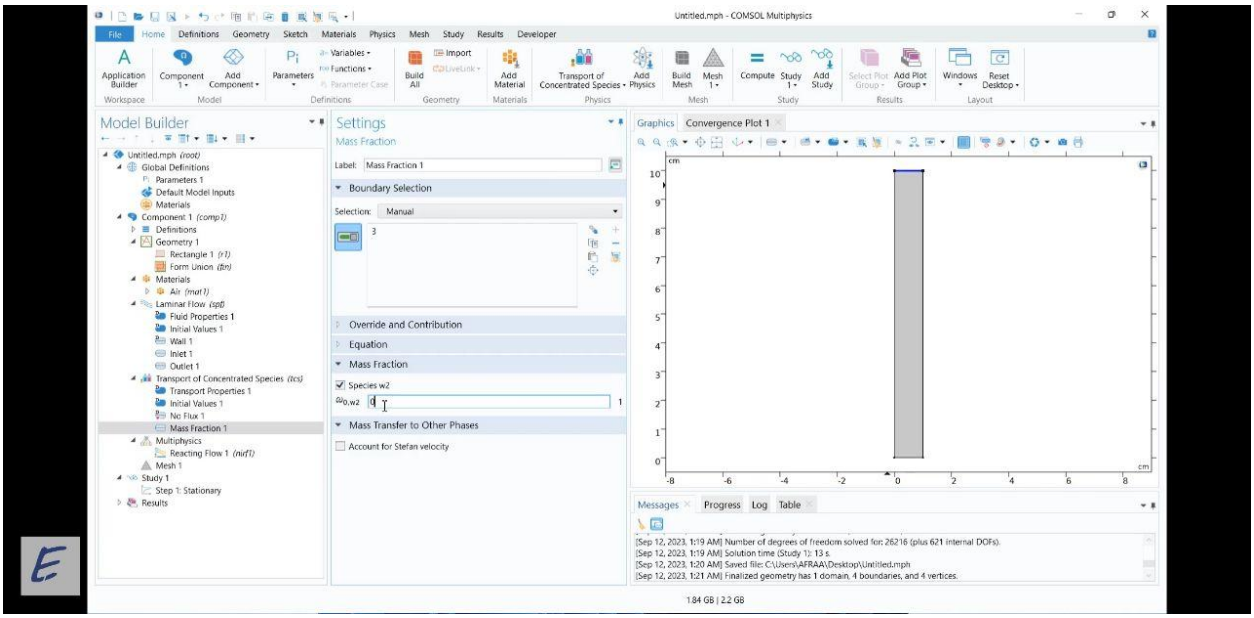


Email : Abrar.Abdulkareem.Saeed@uomus.edu.iq

Add material to the geometry, we are choosing air here.

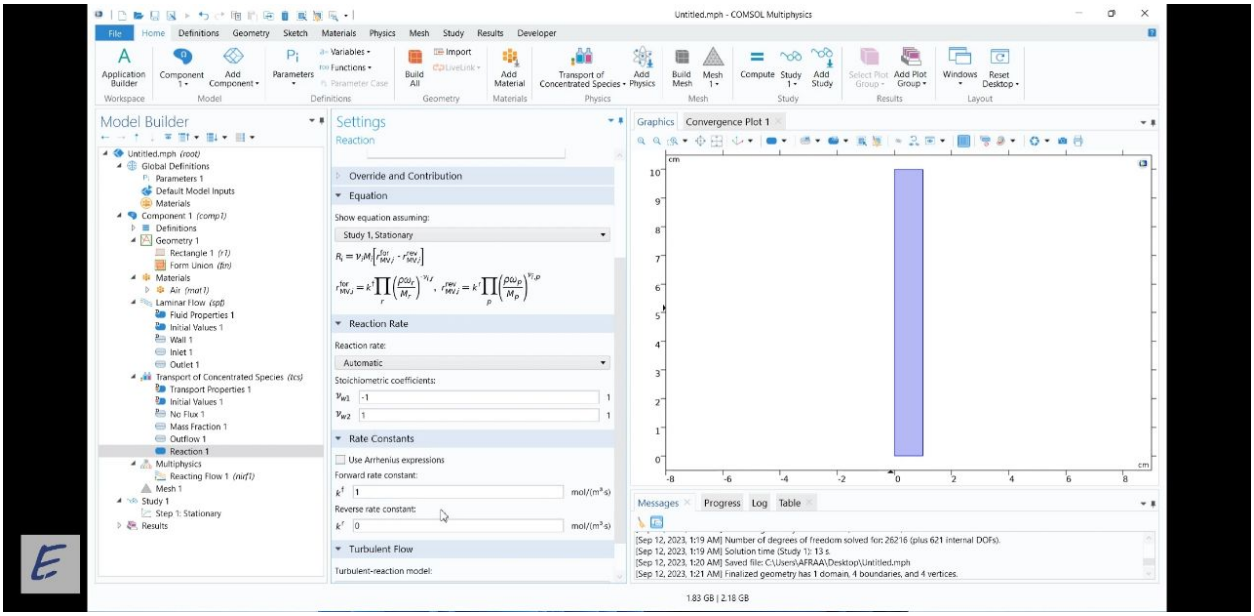


Apply mass fraction boundary condition:



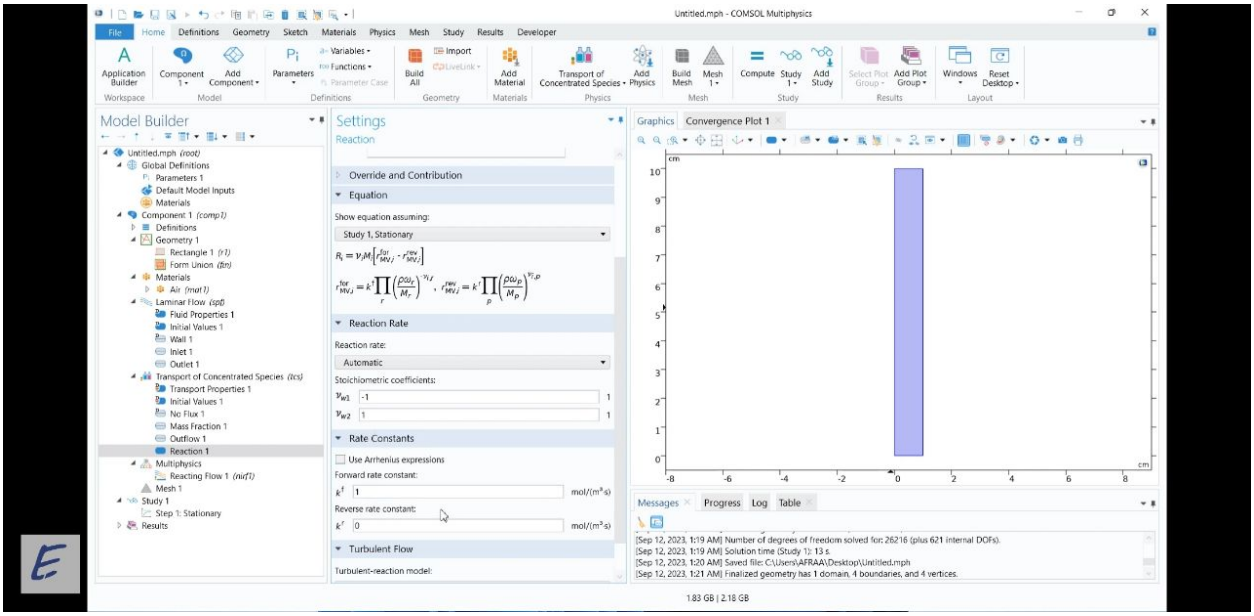
Email : Abrar.Abdulkareem.Saeed@uomus.edu.iq

Apply reaction boundary condition:

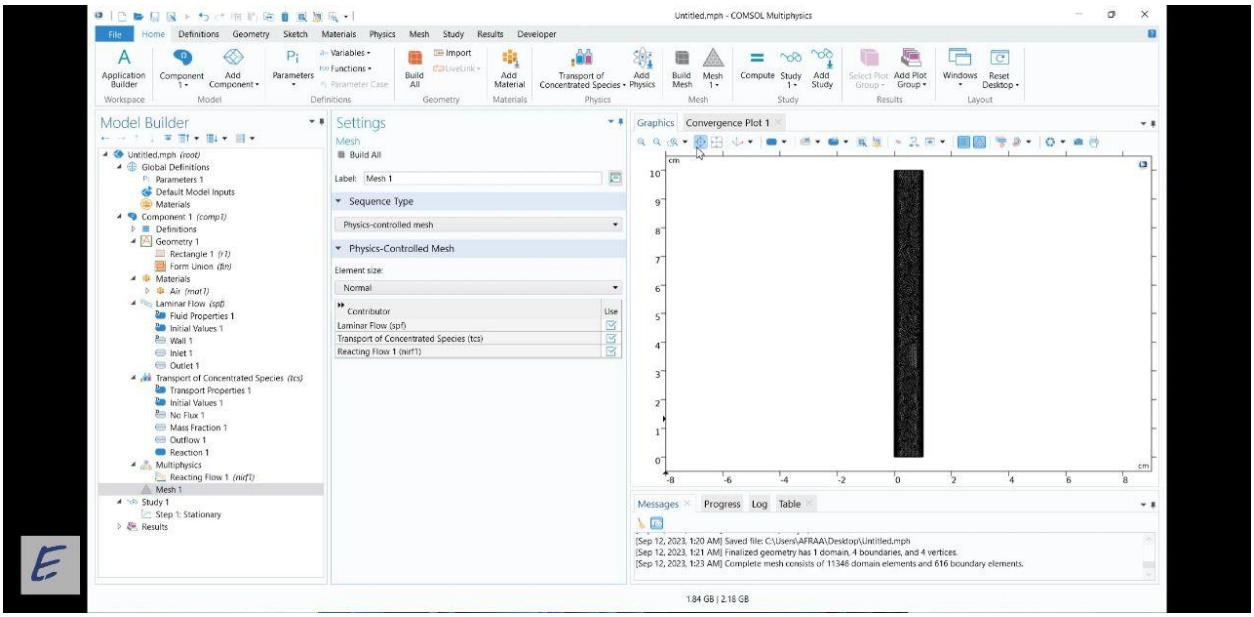


Apply reacting flow in Multiphysics:

Email : Abrar.Abdulkareem.Saeed@uomus.edu.iq

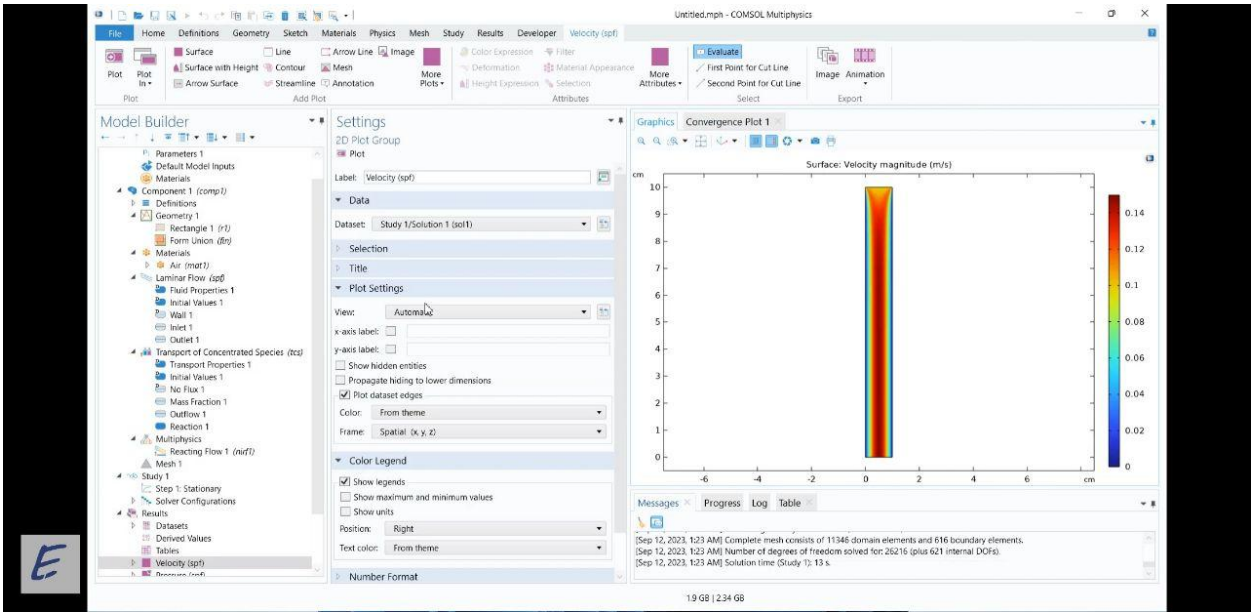


Apply the mesh to the geometry:



Email : Abrar.Abdulkareem.Saeed@uomus.edu.iq

Compute the results:



The results shows the fluids velocity and pressure.

Email : Abrar.Abdulkareem.Saeed@uomus.edu.iq