المادة: تطبيقات الحاسوب3

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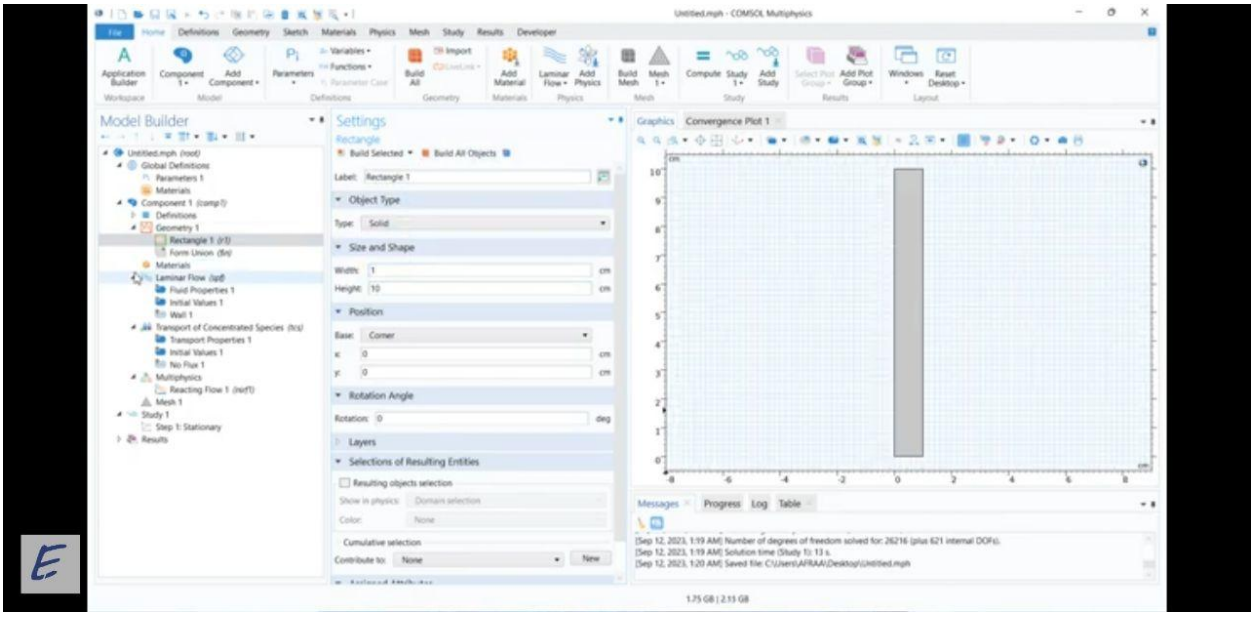
المرحلة: الثالثة

عنوان المحاضرة: المحاضرة الحادية عشر

Computing chemical reaction flow

Start by drawing the geometry as shown below:



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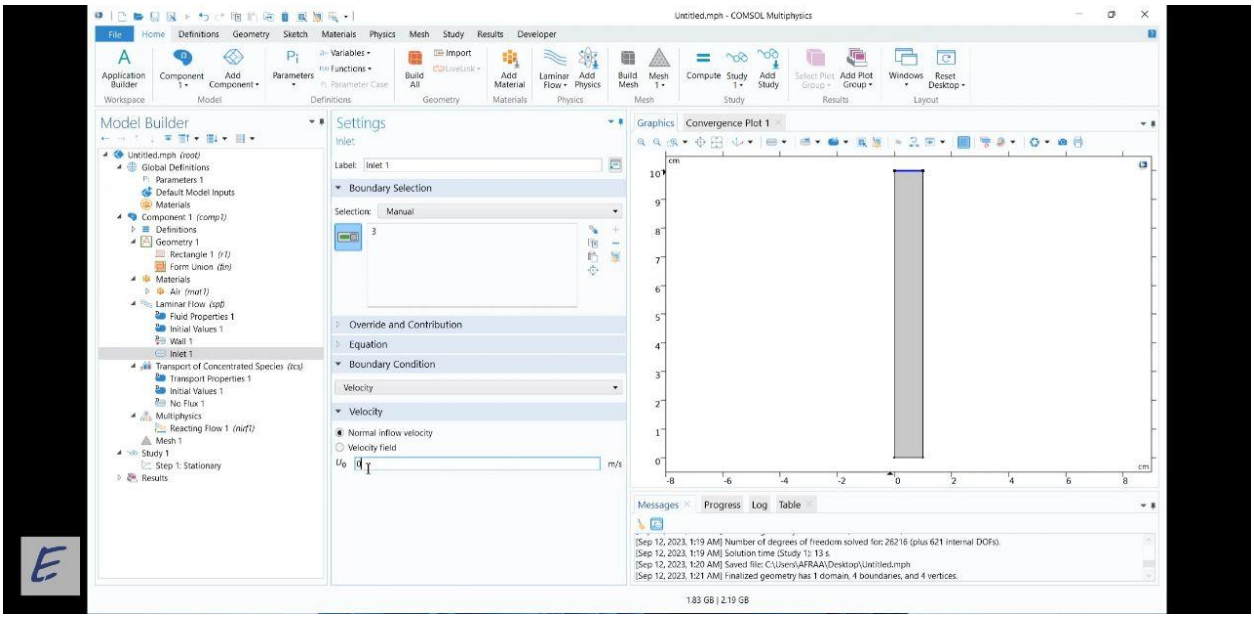
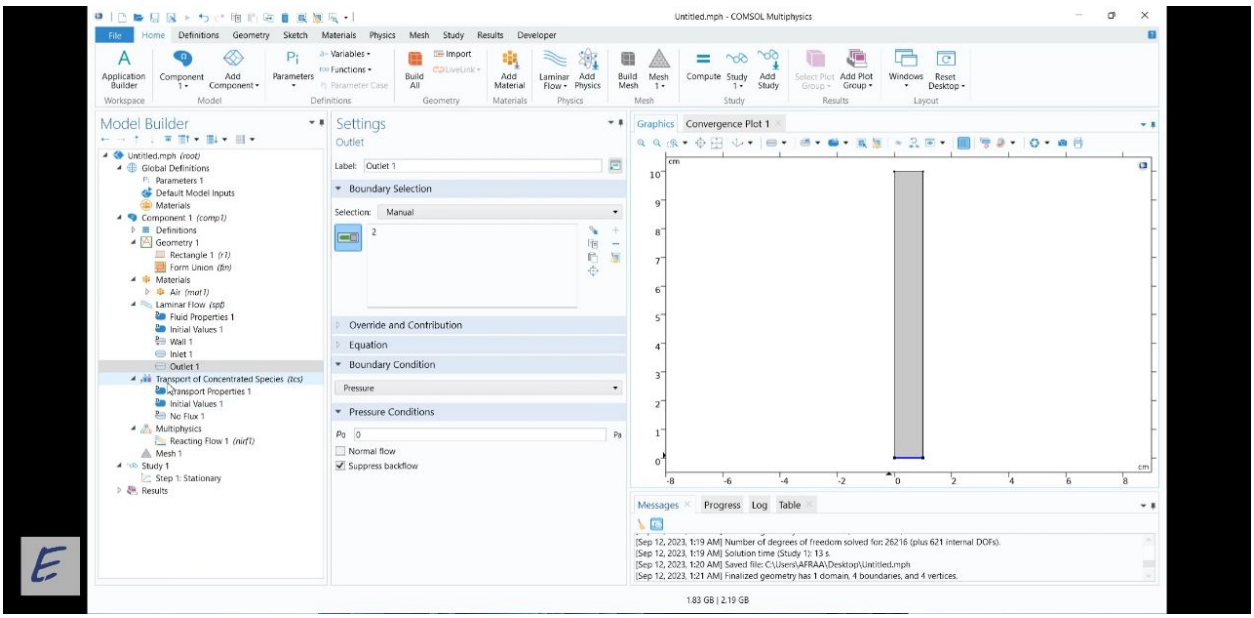
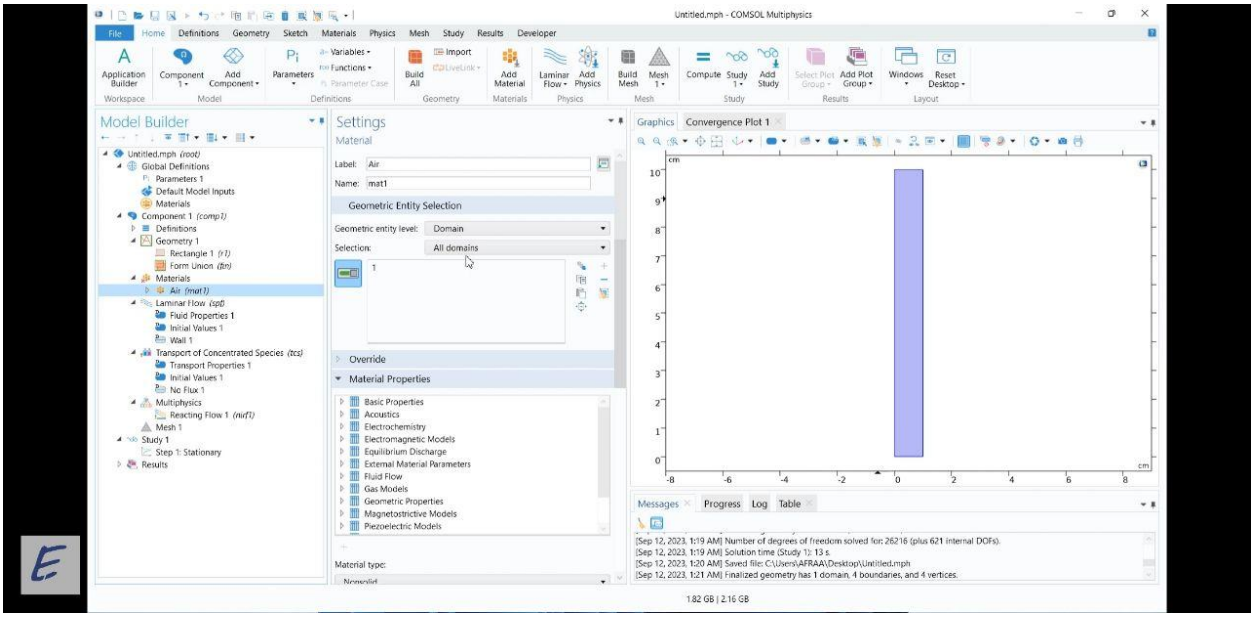
Apply the inlet boundary condition to the geometry:



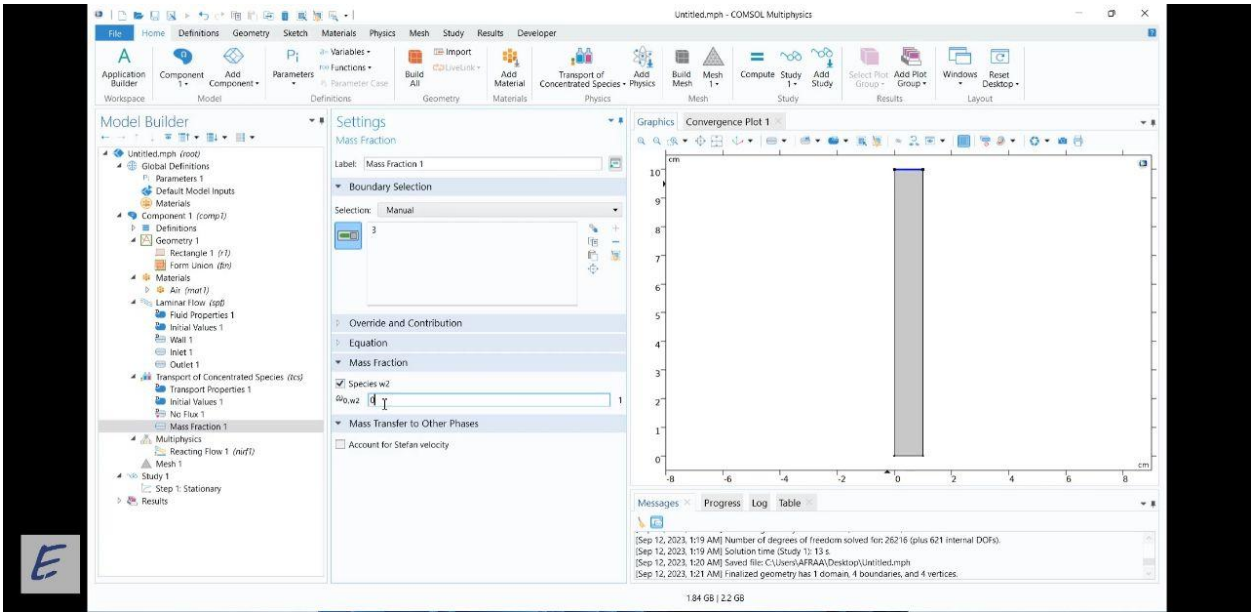
Also apply the outlet boundary condition within the laminar flow physics:



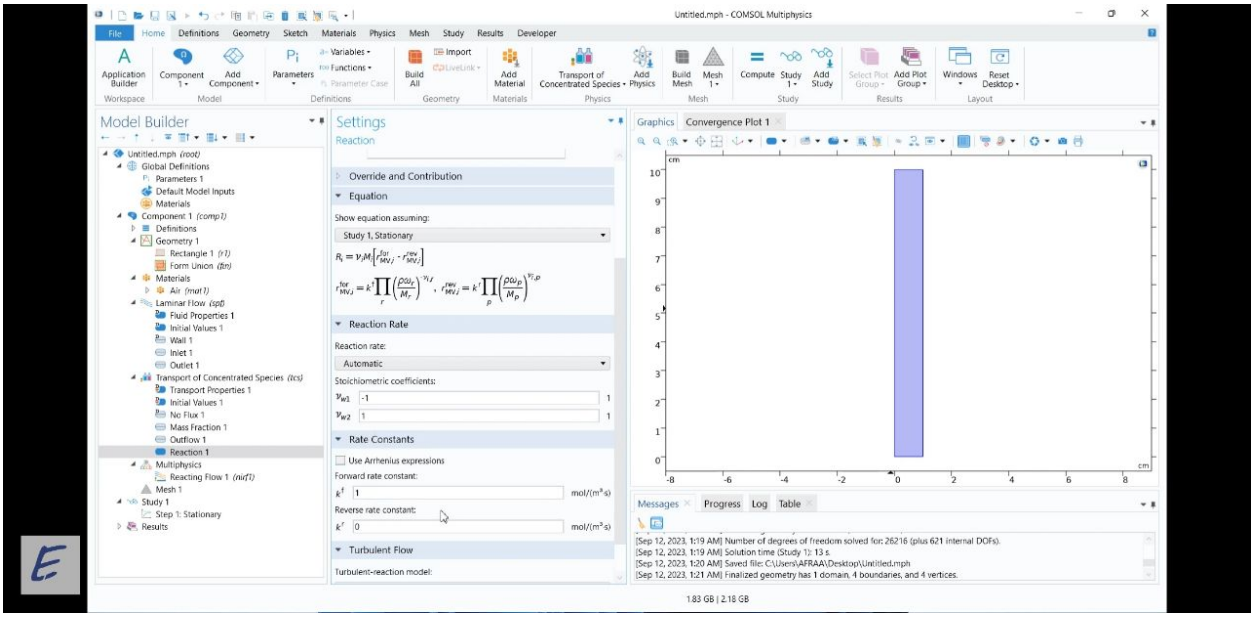
Add material to the geometry, we are choosing air here.



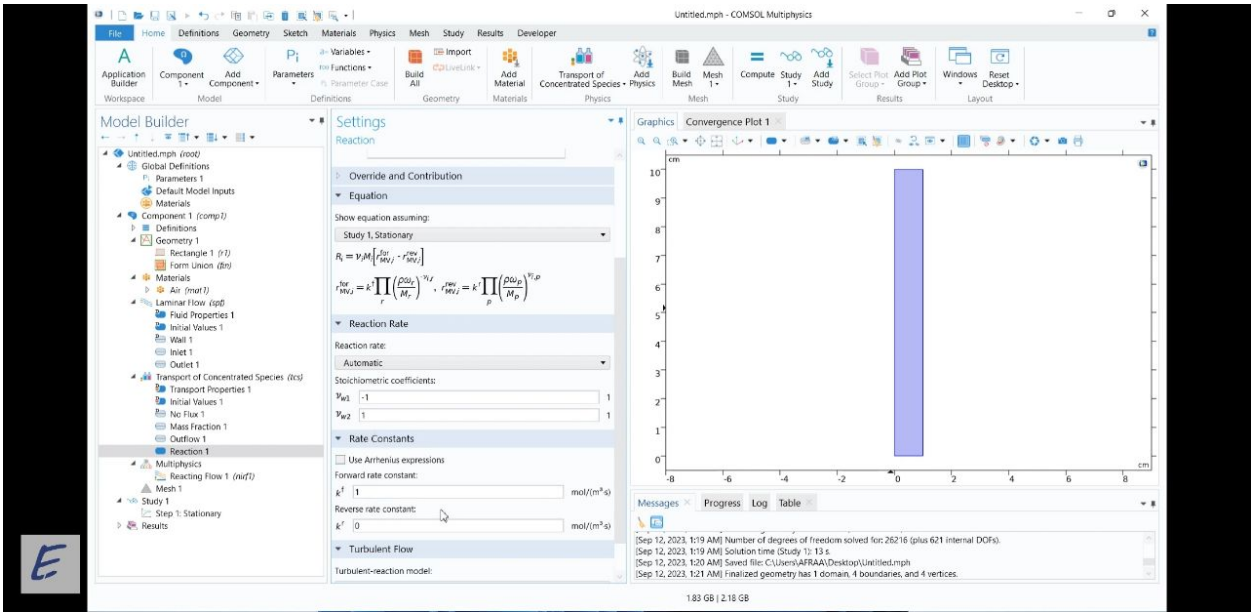
Apply mass fraction boundary condition:



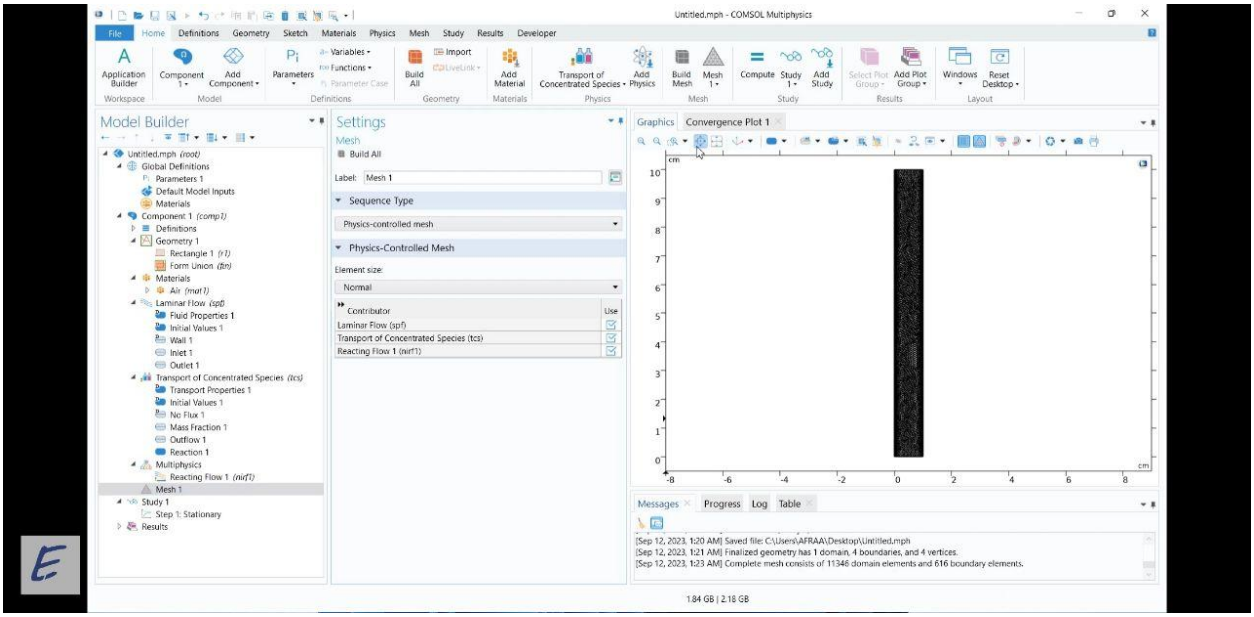
Apply reaction boundary condition:



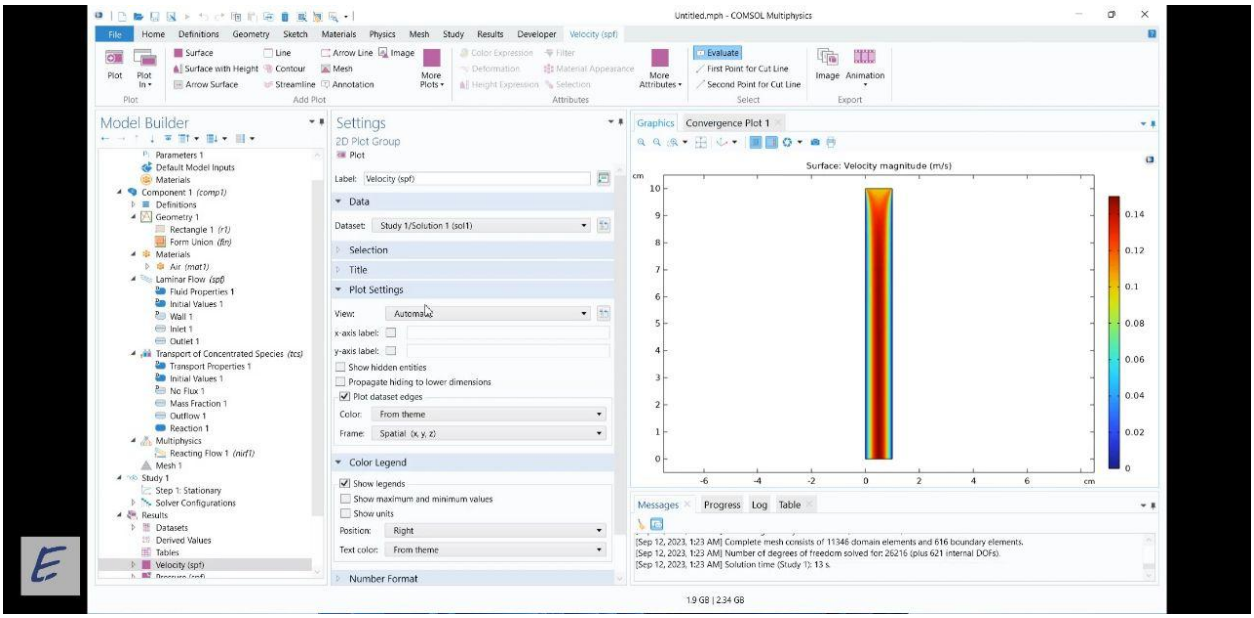
Apply reacting flow in Multiphysics:



Apply the mesh to the geometry:



Compute the results:



The results shows the fluids velocity and pressure.