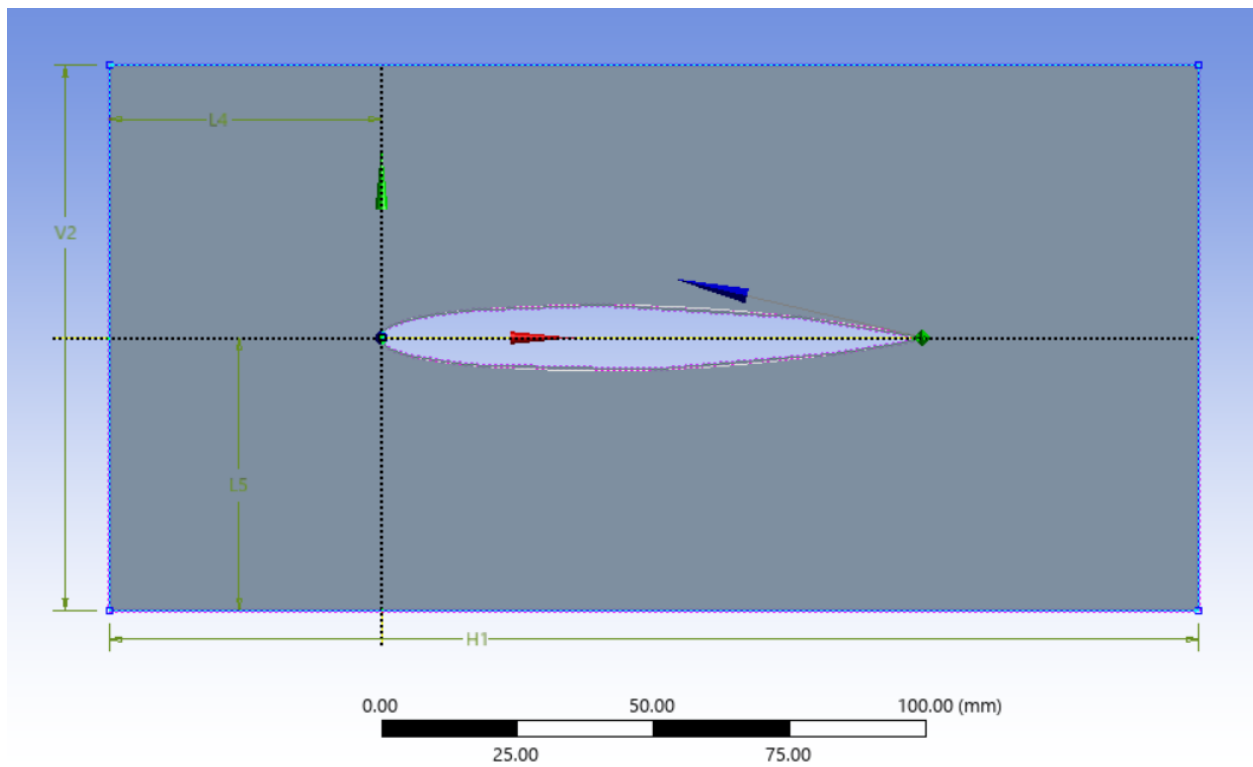


Project 20: ANSYS FLUENT: NACA Airfoil 0012

Problem Statement: Calculate the pressure and velocity contour around a NACA airfoil 0012.

Geometry:



Material Properties:

Name	Material Type	Order Materials by
air	fluid	<input checked="" type="radio"/> Name
Chemical Formula	Fluent Fluid Materials	<input type="radio"/> Chemical Formula
	air	Fluent Database...
	Mixture	GRANTA MDS Database...
	none	User-Defined Database...

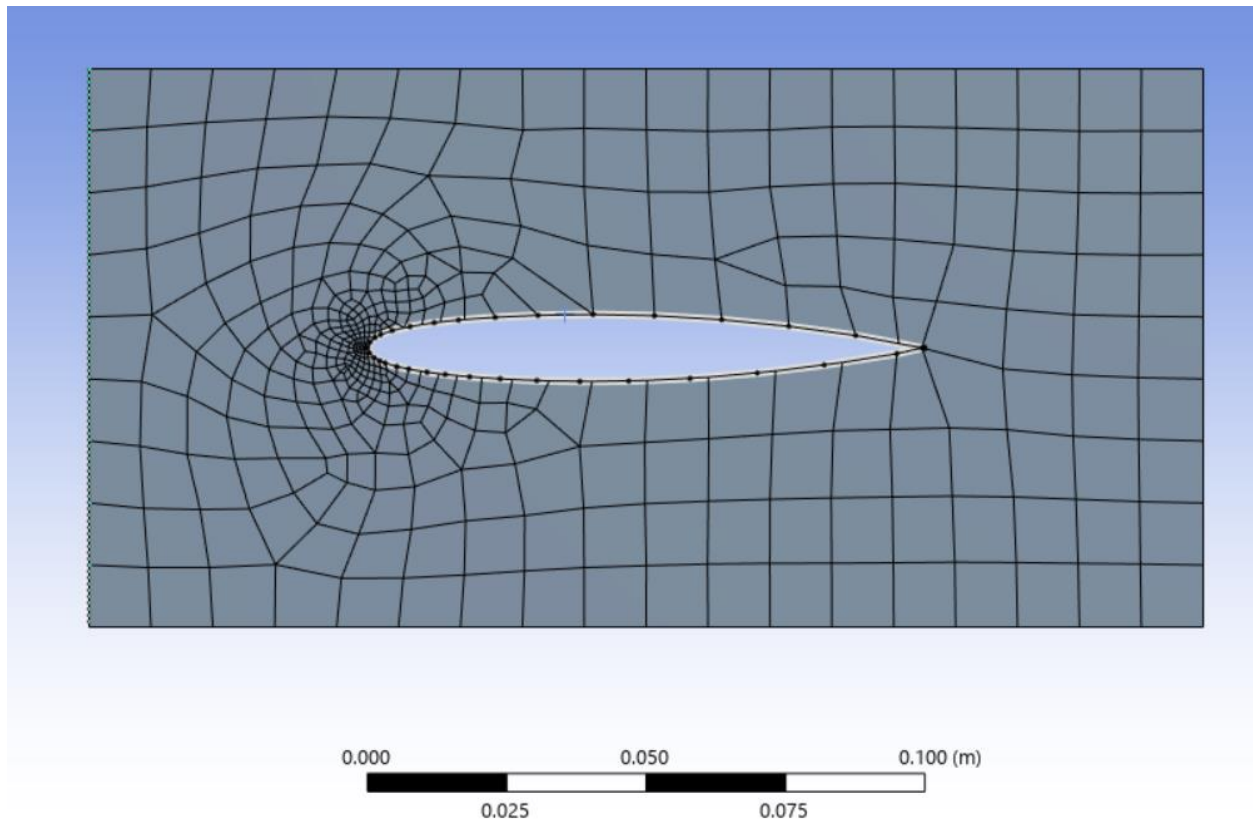
Properties

Density [kg/m ³]	constant	Edit...
1.225		
Viscosity [kg/(m s)]	constant	Edit...
1.7894e-05		

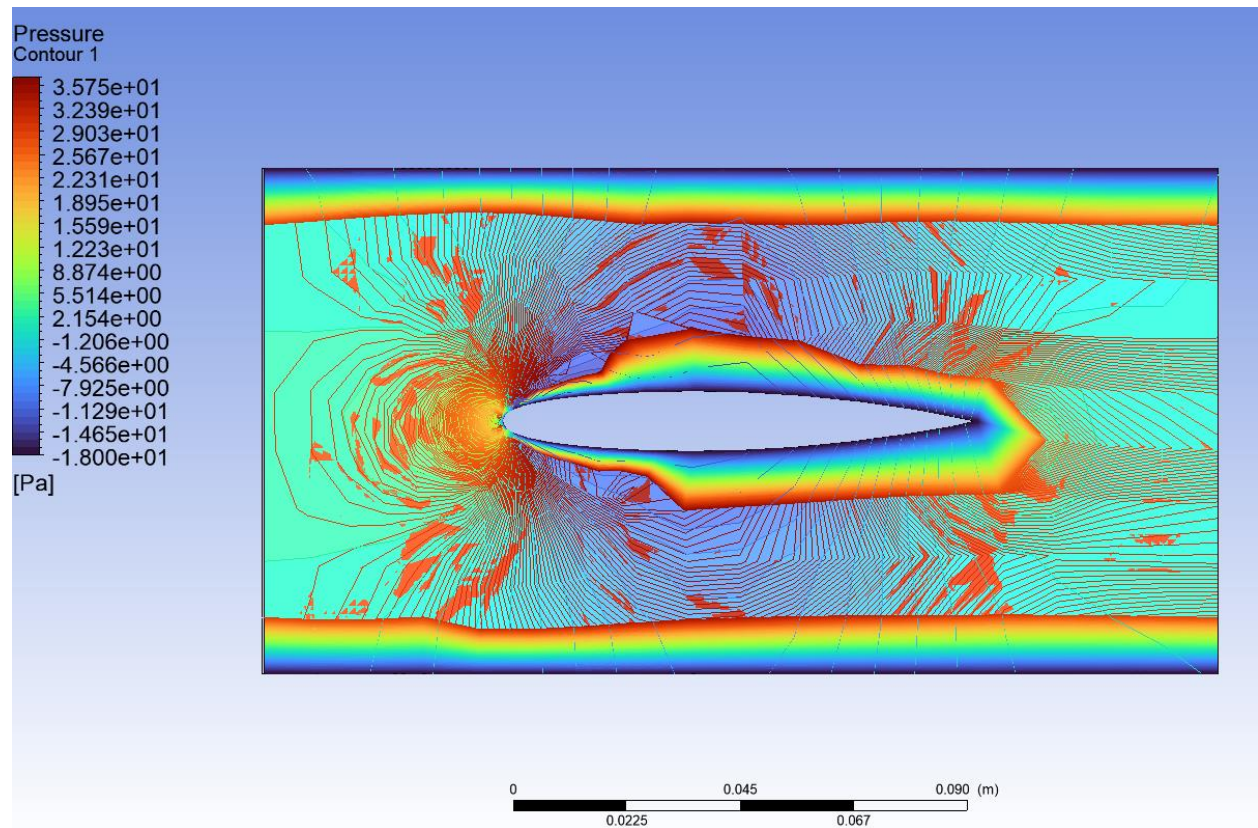
Boundary Conditions:

Inlet velocity is 8m/s. Outlet pressure is 0Pa.

Mesh:



Results: Pressure and Velocity Contour around the airfoil.



Velocity
Contour 2

