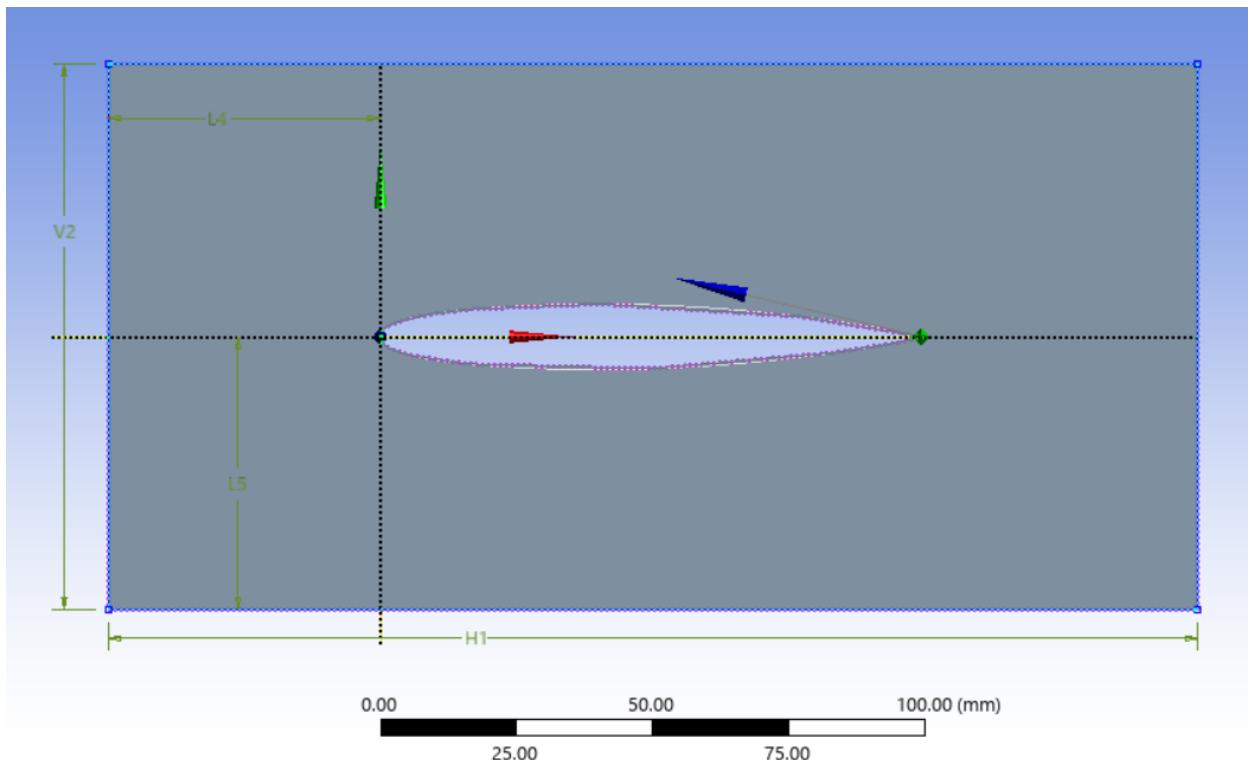


Project 20: ANSYS FLUENT: NACA Airfoil 0012

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

Geometry:



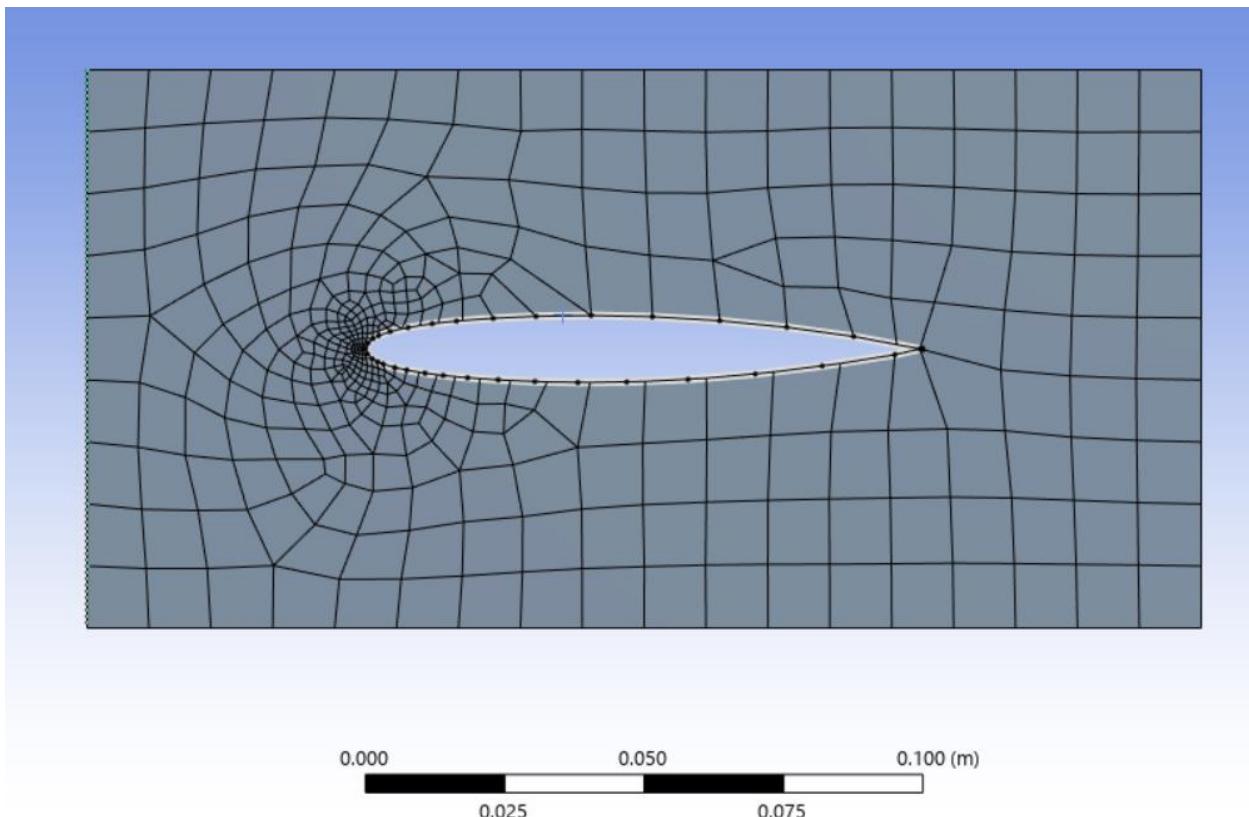
Material Properties:

Name air	Material Type fluid	Order Materials by <input checked="" type="radio"/> Name <input type="radio"/> Chemical Formula
Chemical Formula	Fluent Fluid Materials air	Fluent Database...
	Mixture none	GRANTA MDS Database...
		User-Defined Database...
Properties		
Density [kg/m ³] constant 1.225		
Viscosity [kg/(m s)] constant 1.7894e-05		

Boundary Conditions:

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

Mesh:



Results: Pressure and Velocity Contour around the airfoil.

