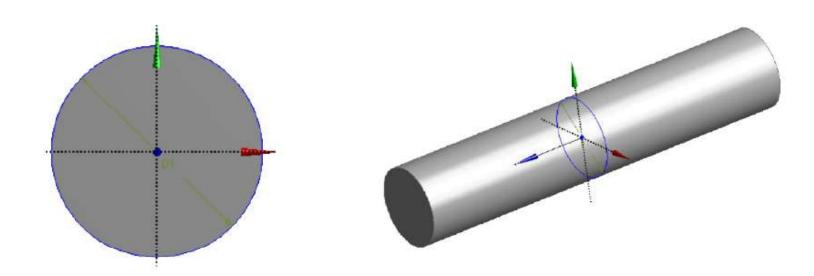
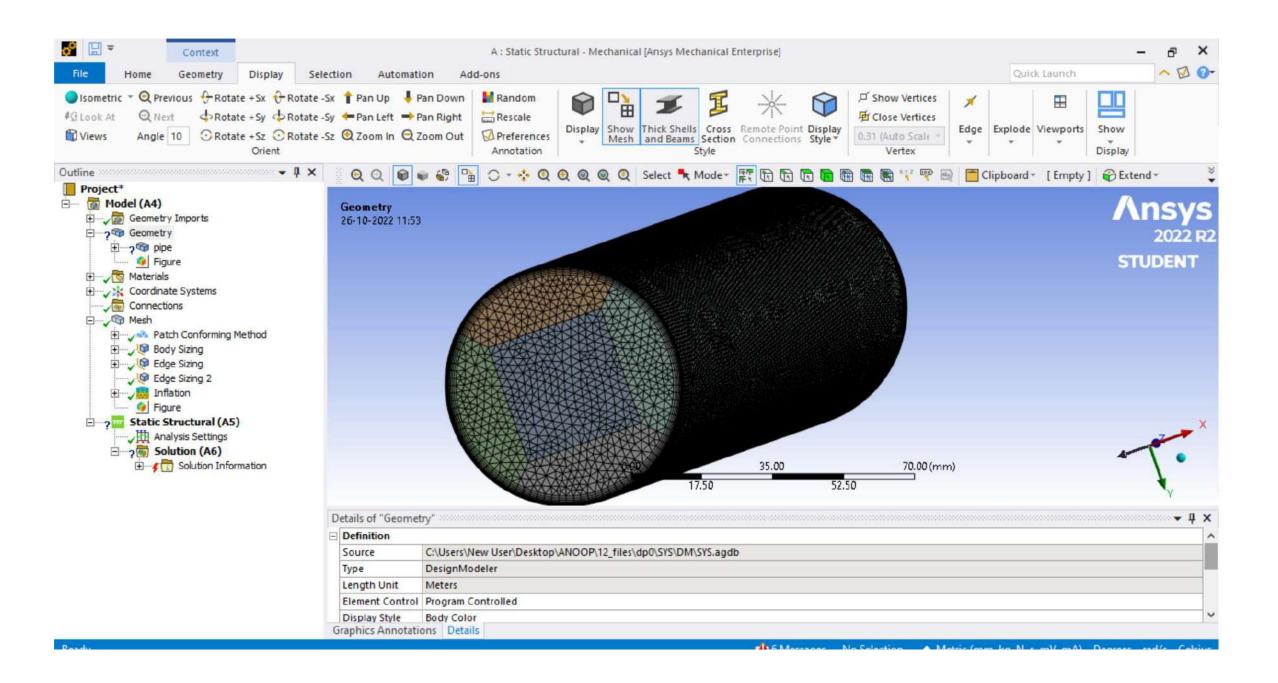
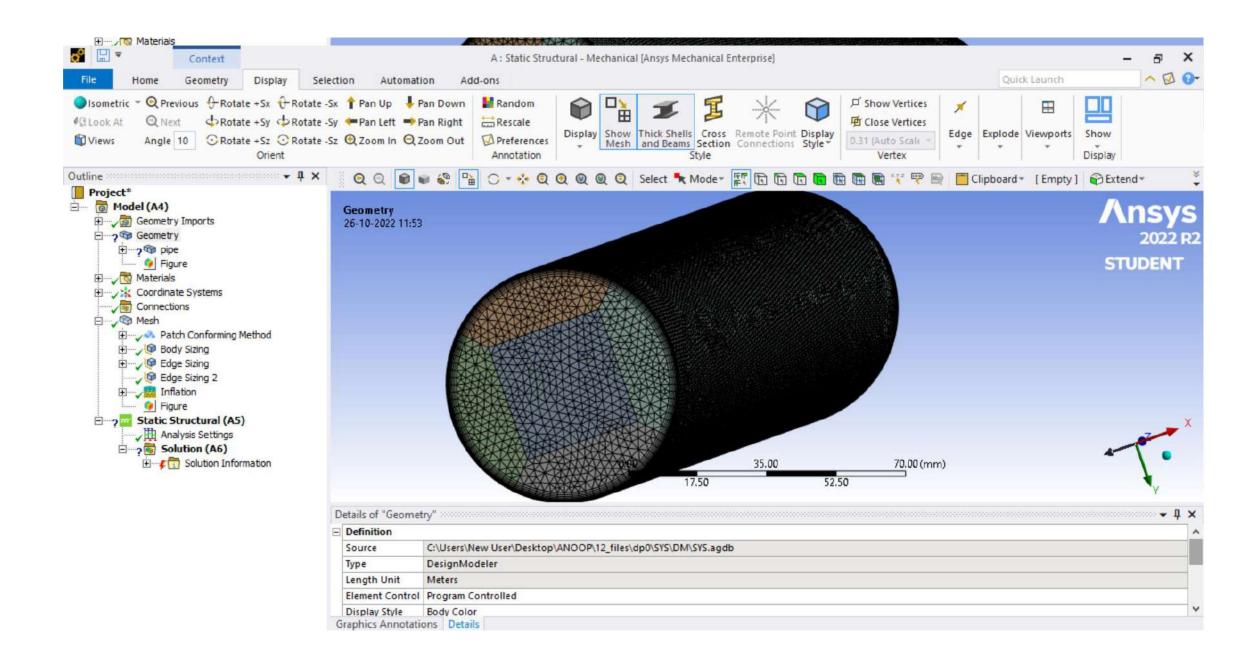
Questions 1 - Mesh the Geometry

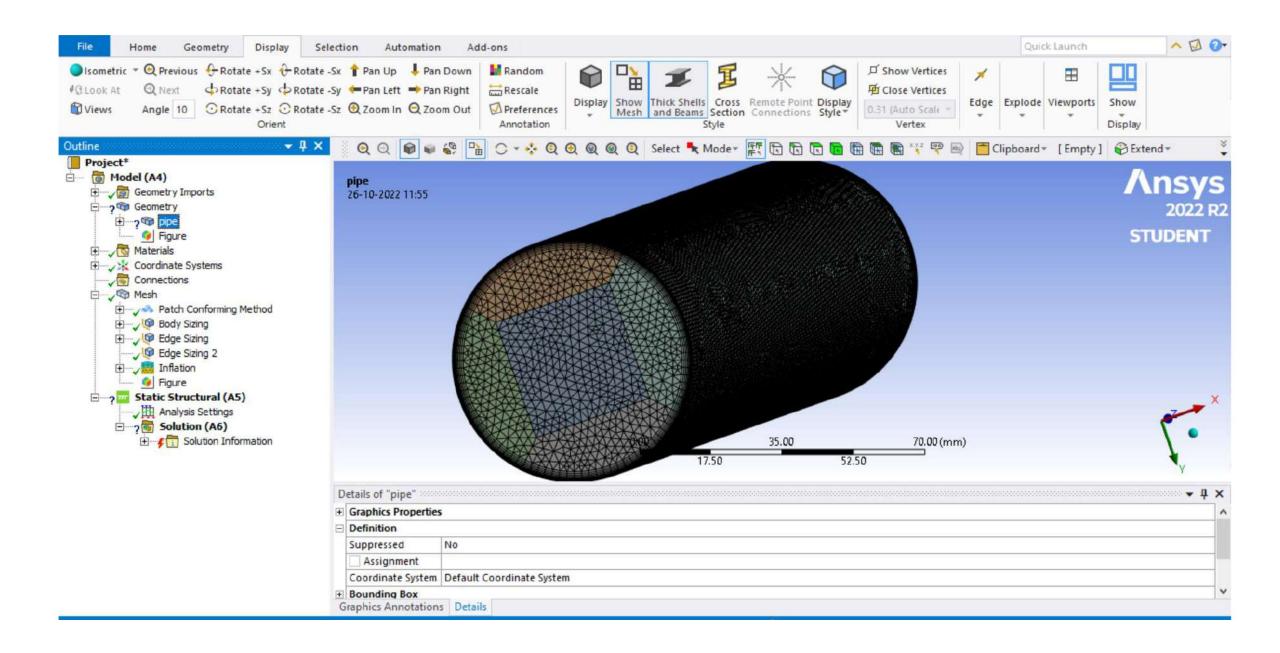
Geometry Detail's

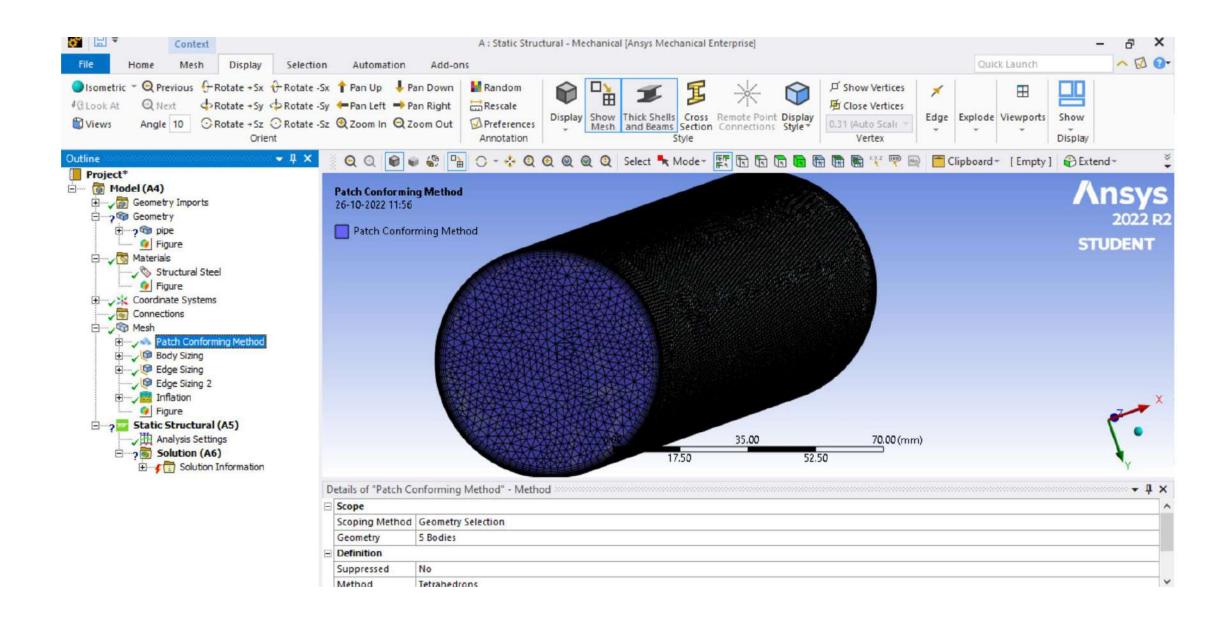
- Mesh the cylindrical PIPE as per the given instructions
- Dimension for PIPE
- 1. Diameter of pipe= 60mm
- 2. Length of pipe= 300mm

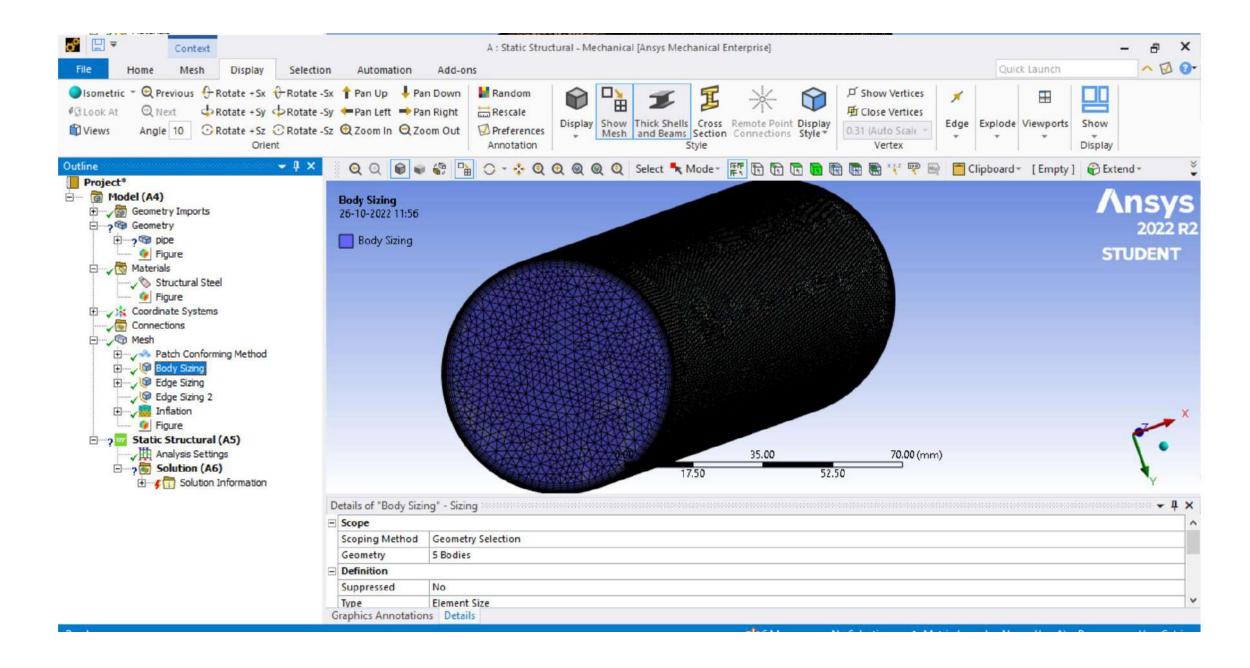


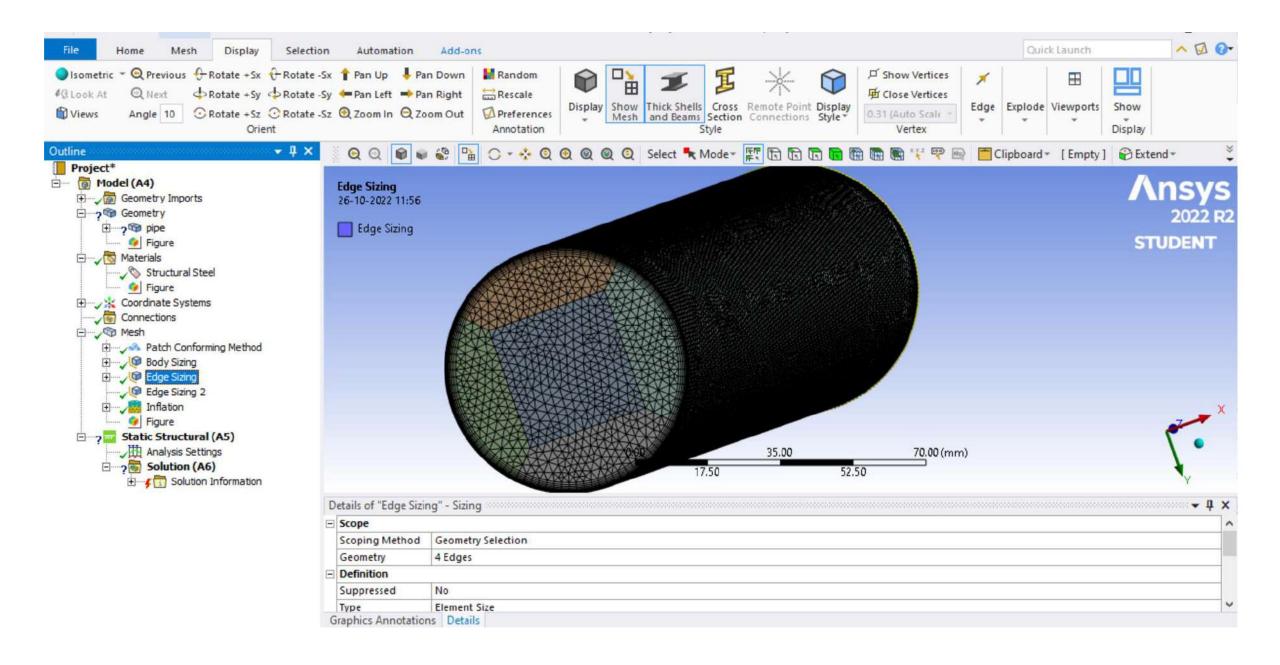


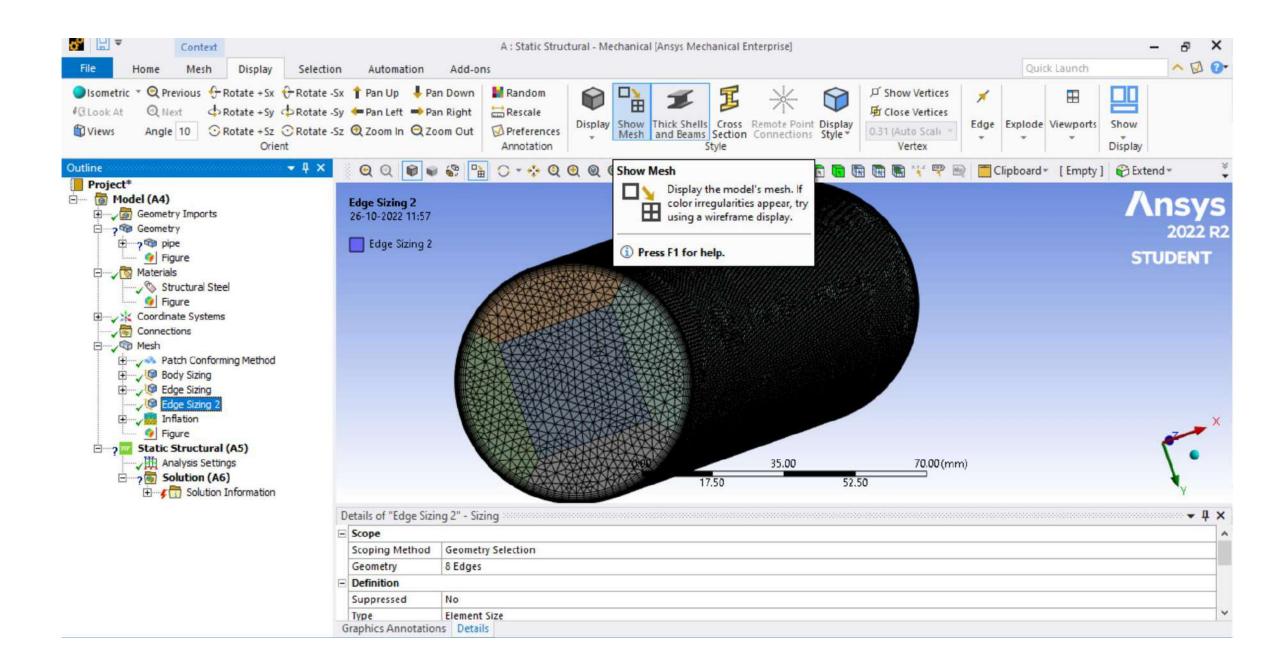


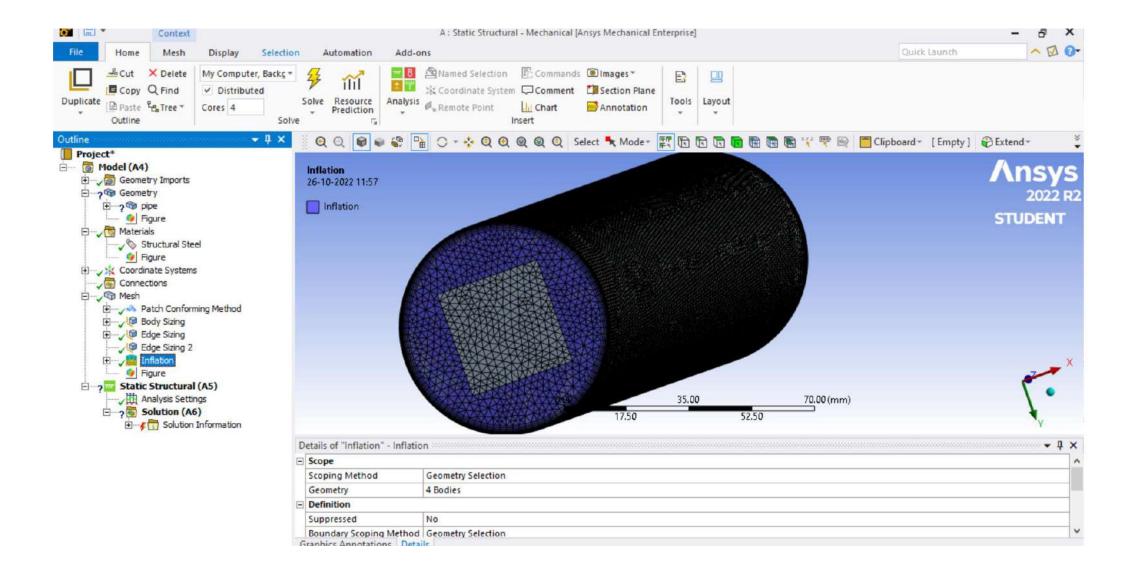


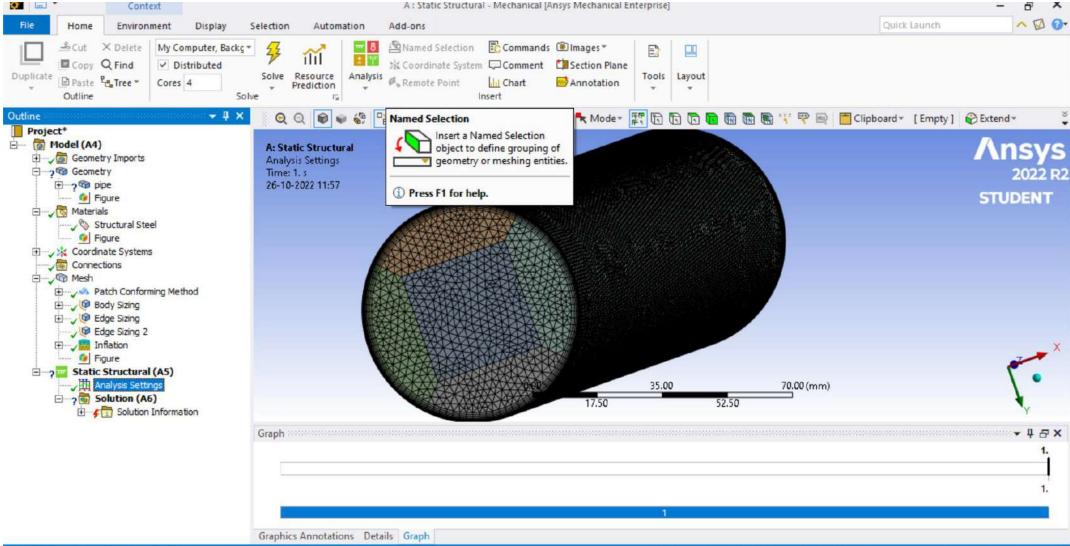


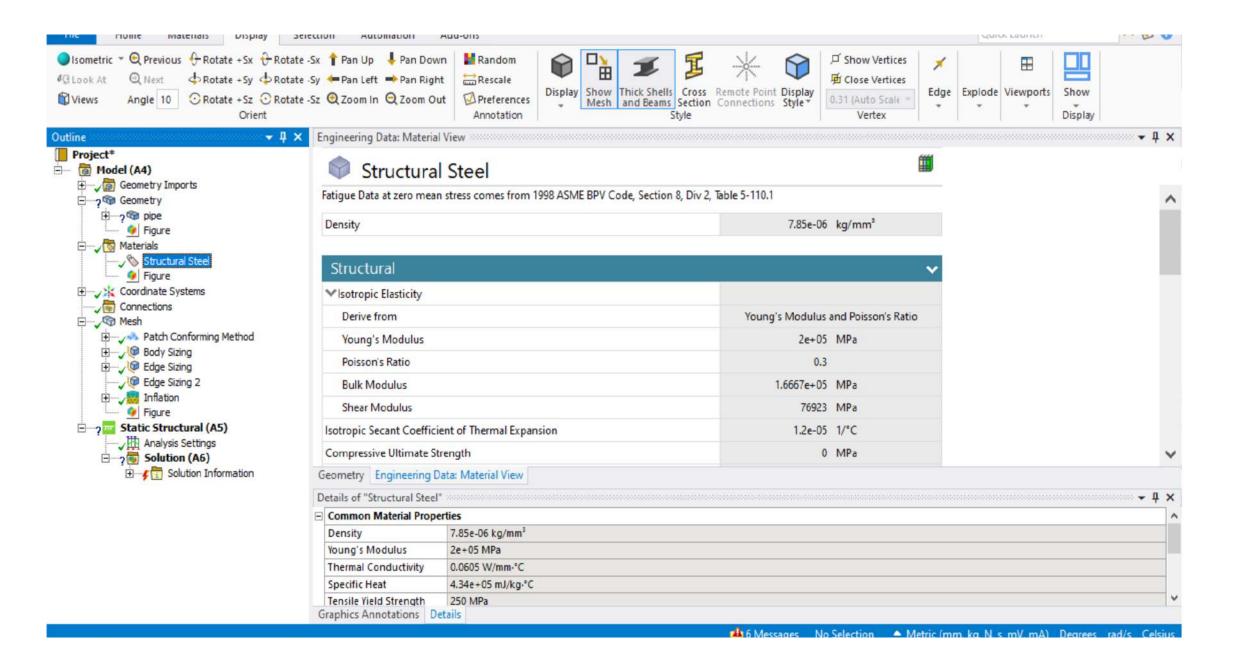












Question 2: Static Structural Analysis

Geometry Detail's

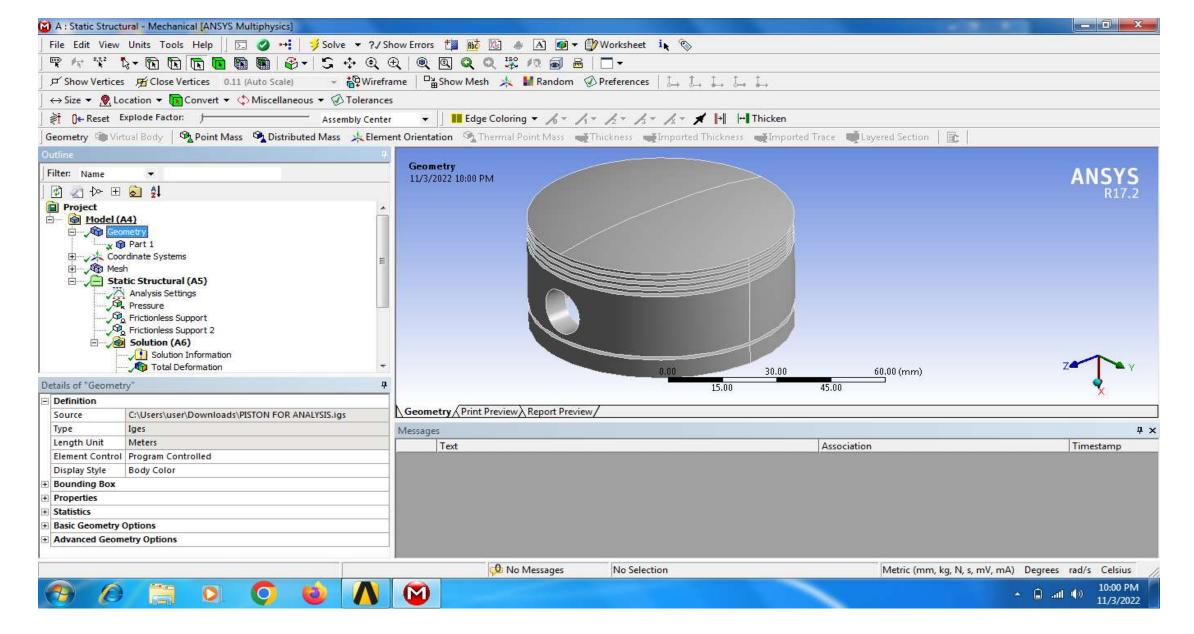


• Meshing Details

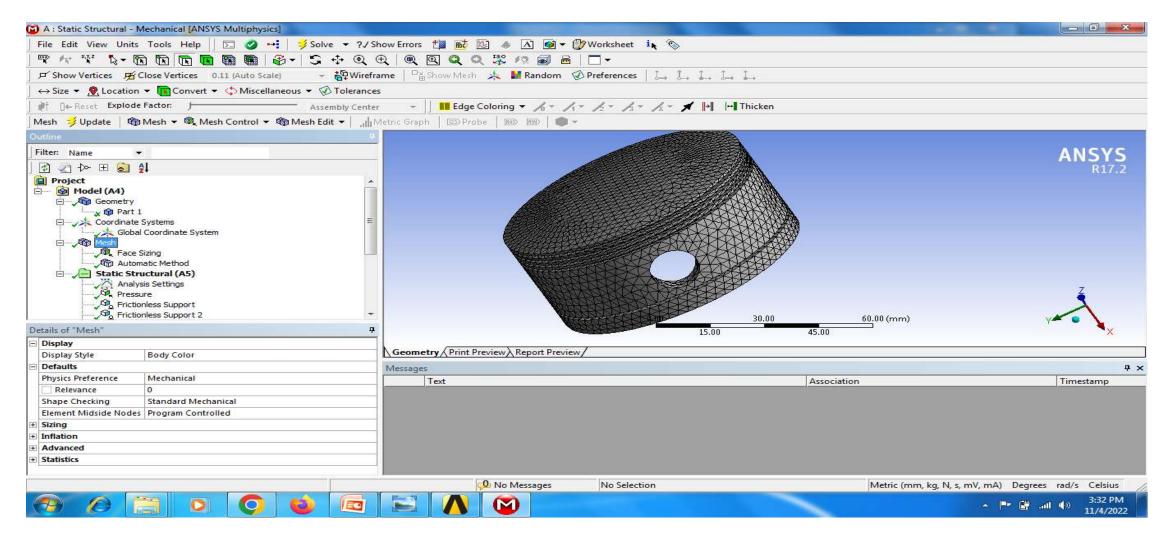
- 4. Meshing Methods= Automatic
- 5. Body Sizing
- 6. Element Size= 3mm

Boundary Condition

- 3. Material Structural Steel
- 4. Pressure 5Mpa
- 5. Frictionless support

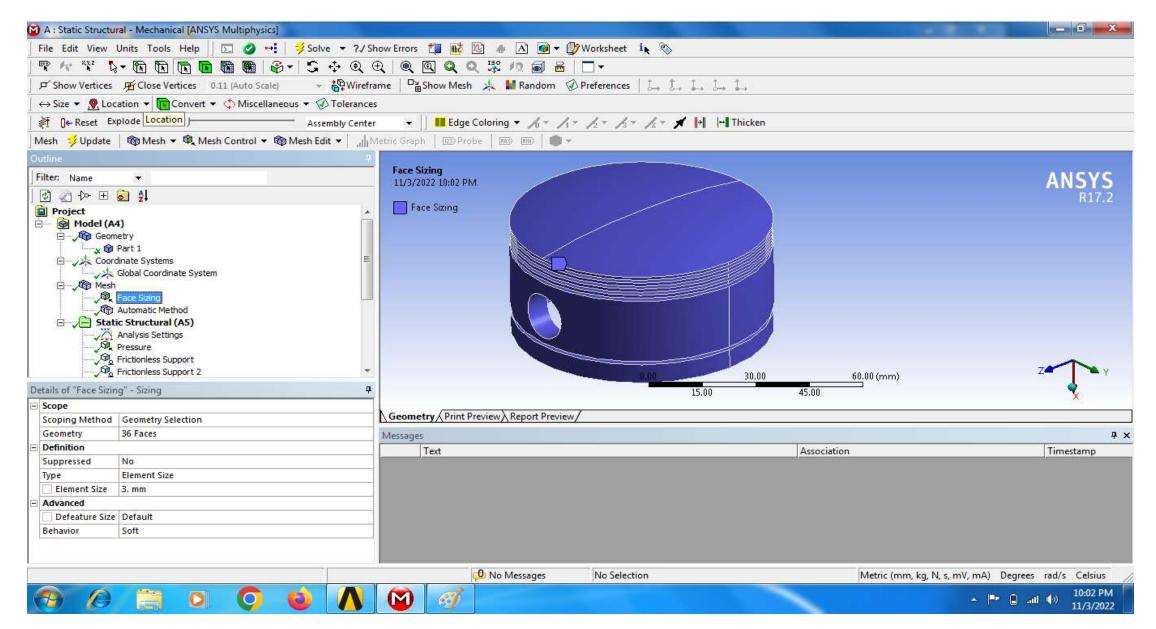


GEOMETRY

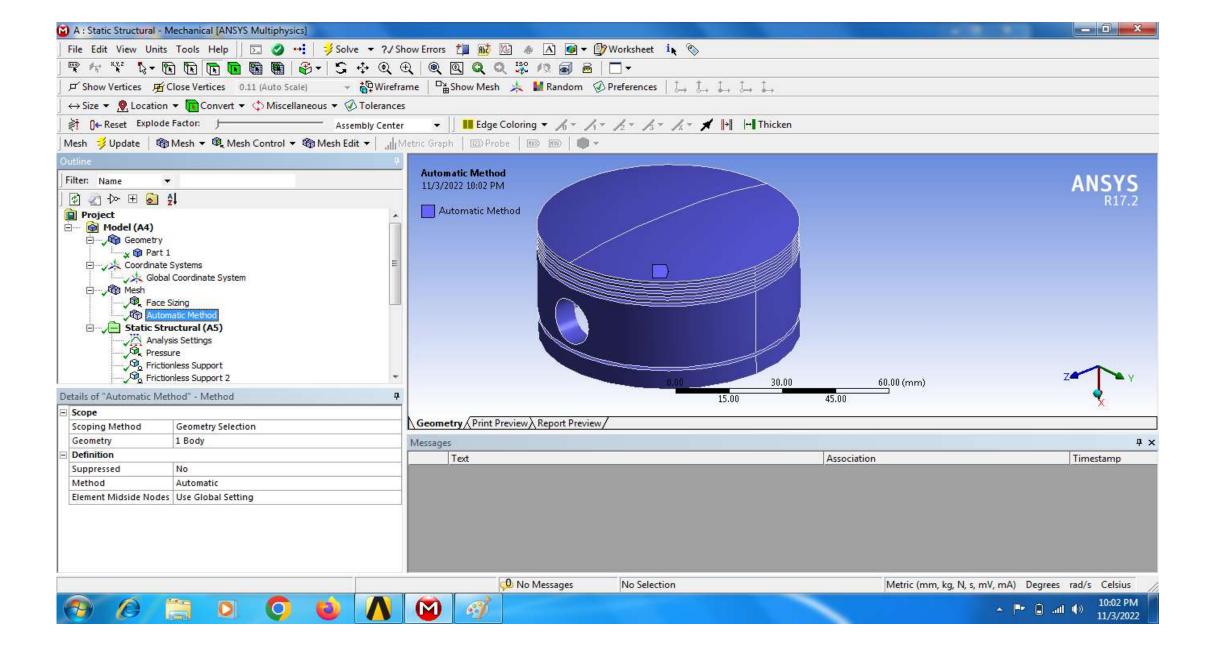


Meshing Details

- 4. Meshing Methods= Automatic
- 5. Body Sizing
- 6. Element Size= 3mm



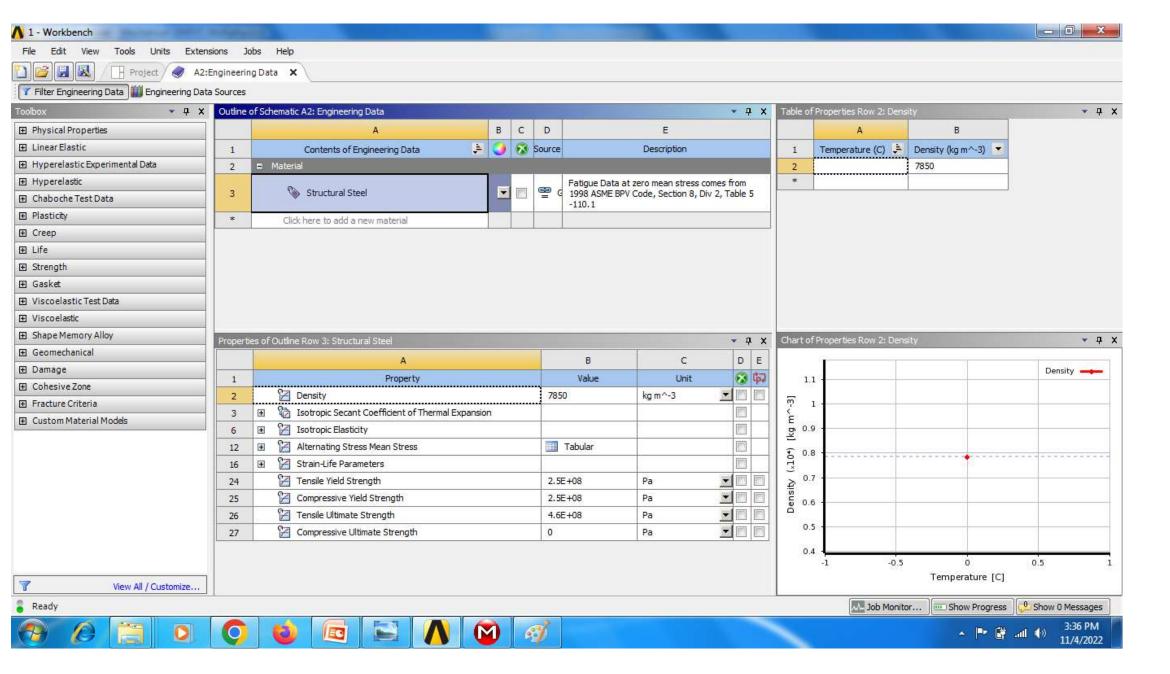
MESHING- face sizing



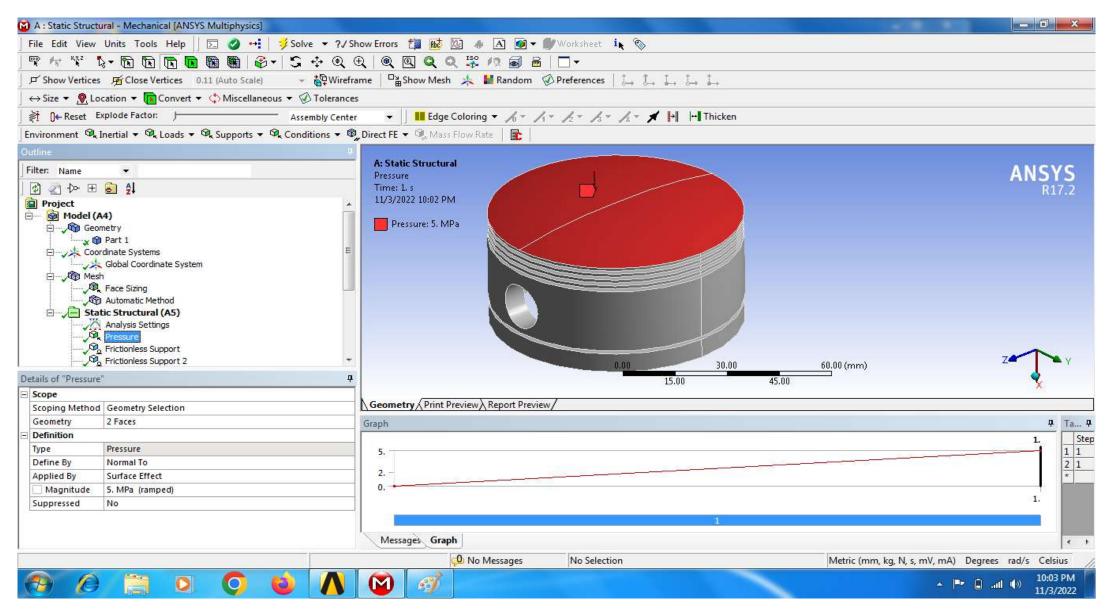
BOUNDARY CONDITIONS

Boundary Condition

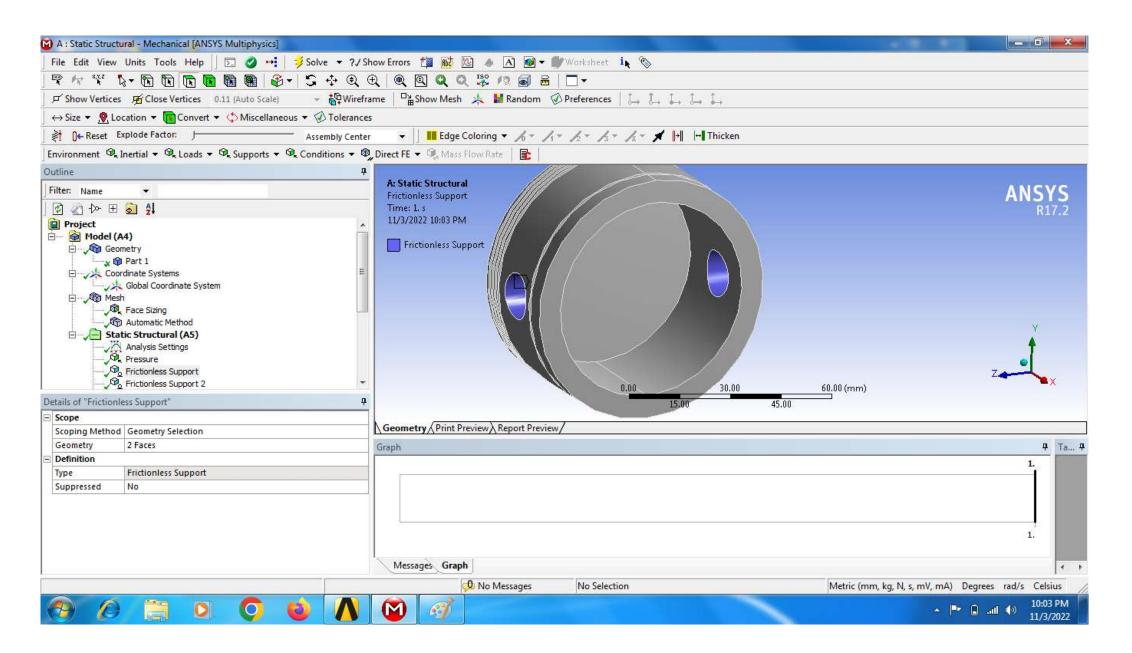
- 3. Material Structural Steel
- 4. Pressure 5Mpa
- 5. Frictionless support



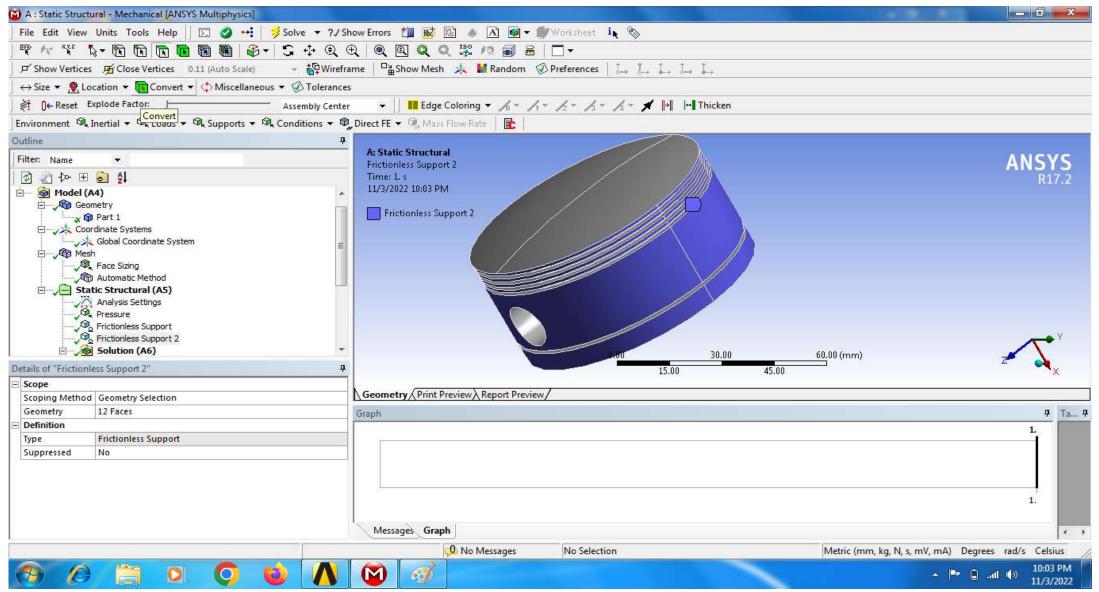
Material



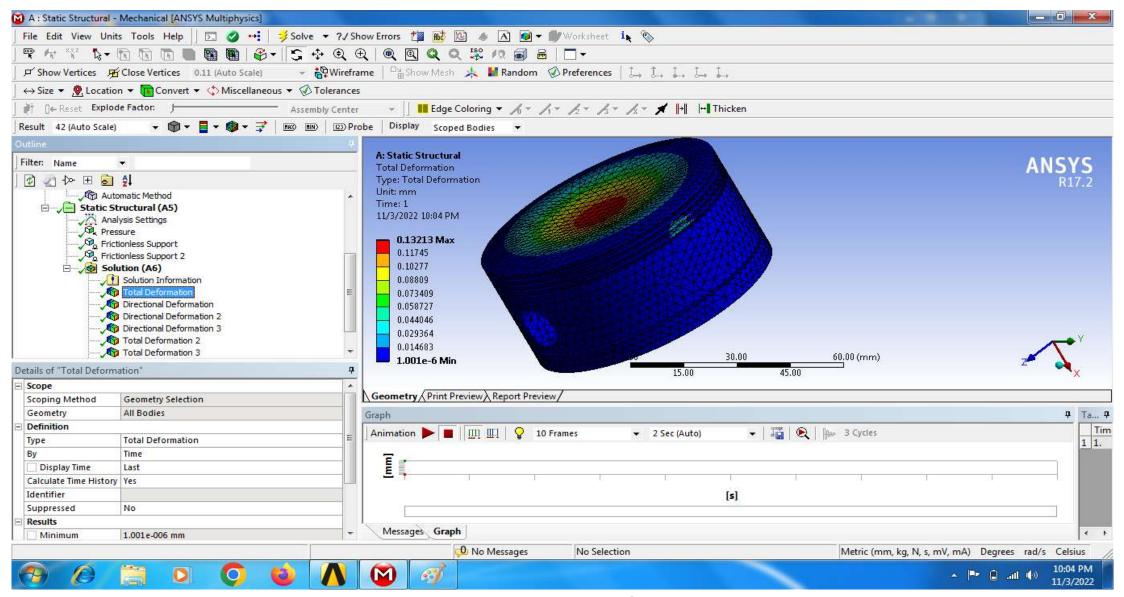
BOUNDARY CONDITIONS- pressure



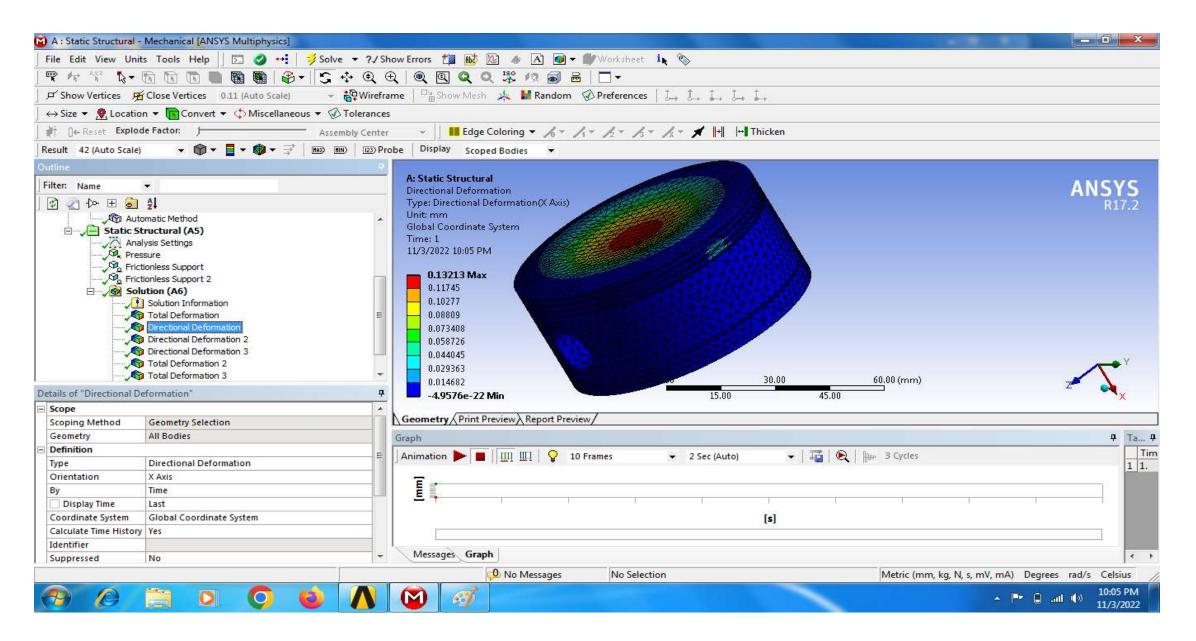
Frictional support



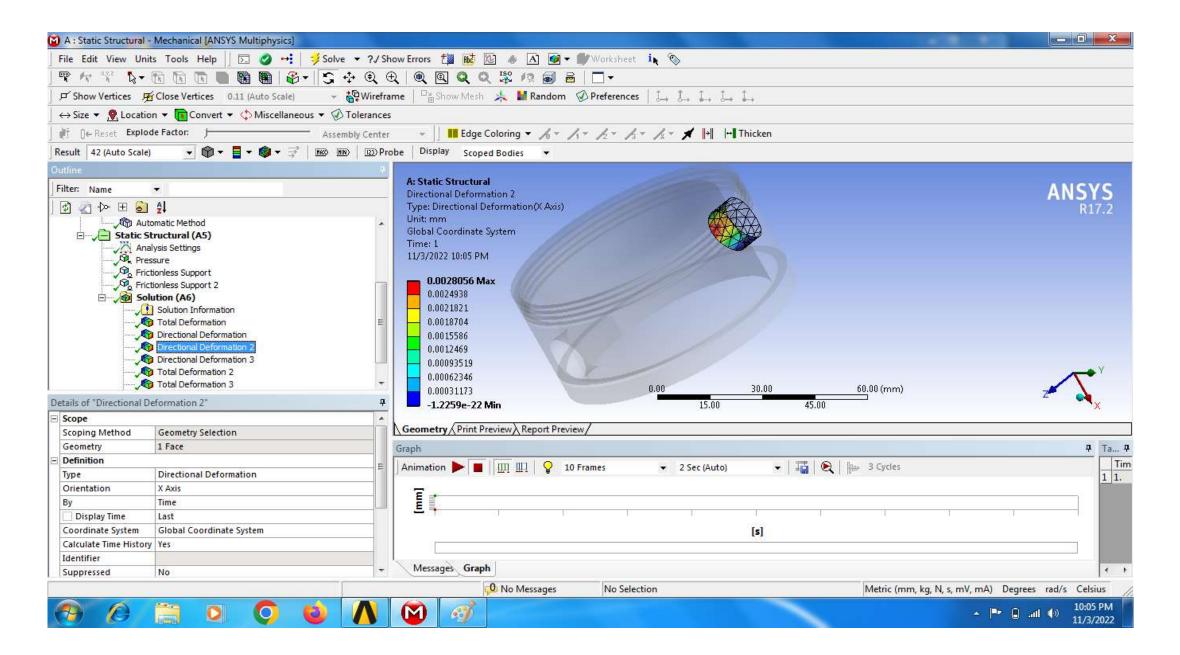
Frictional support



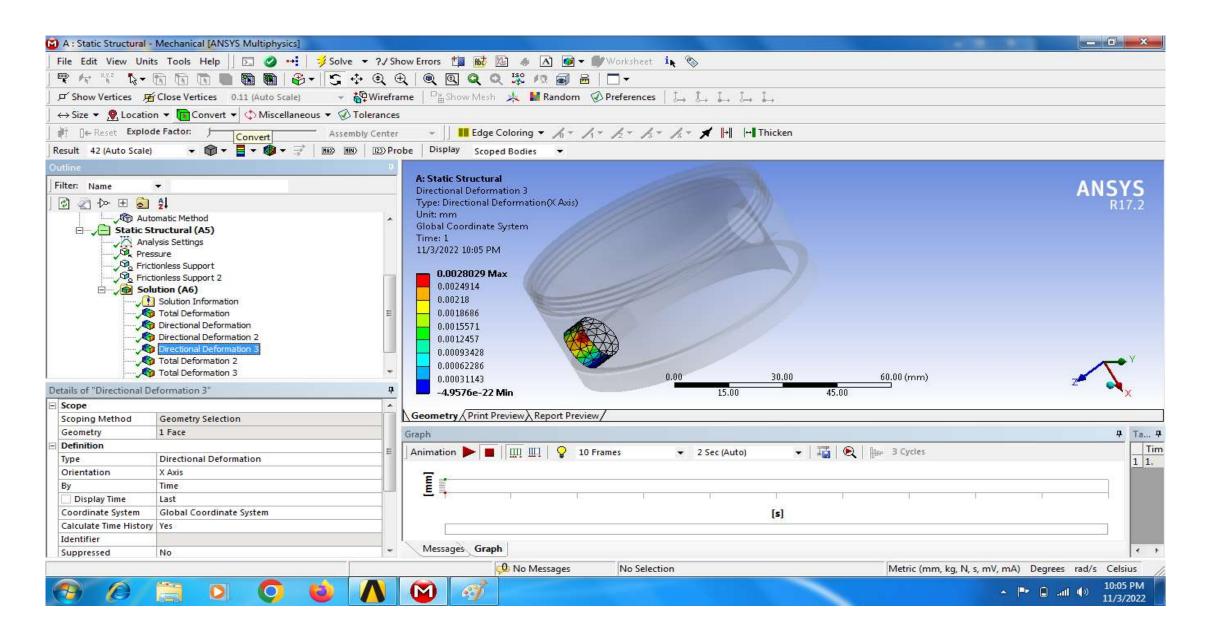
Result- total deformation



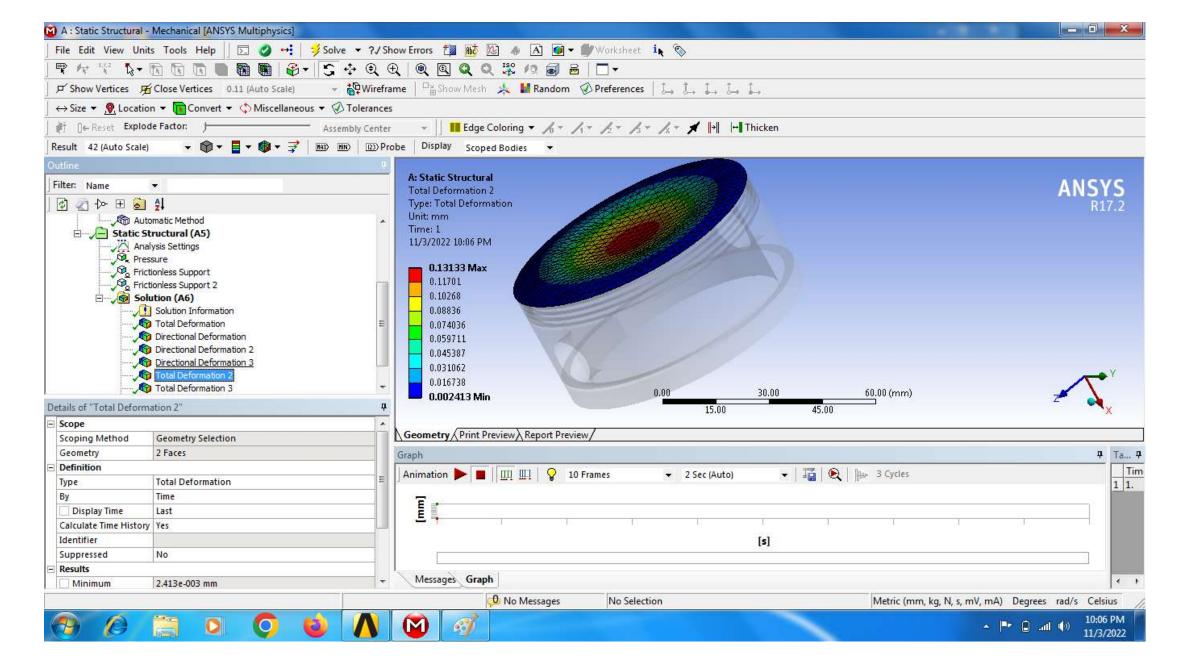
Directional deformation



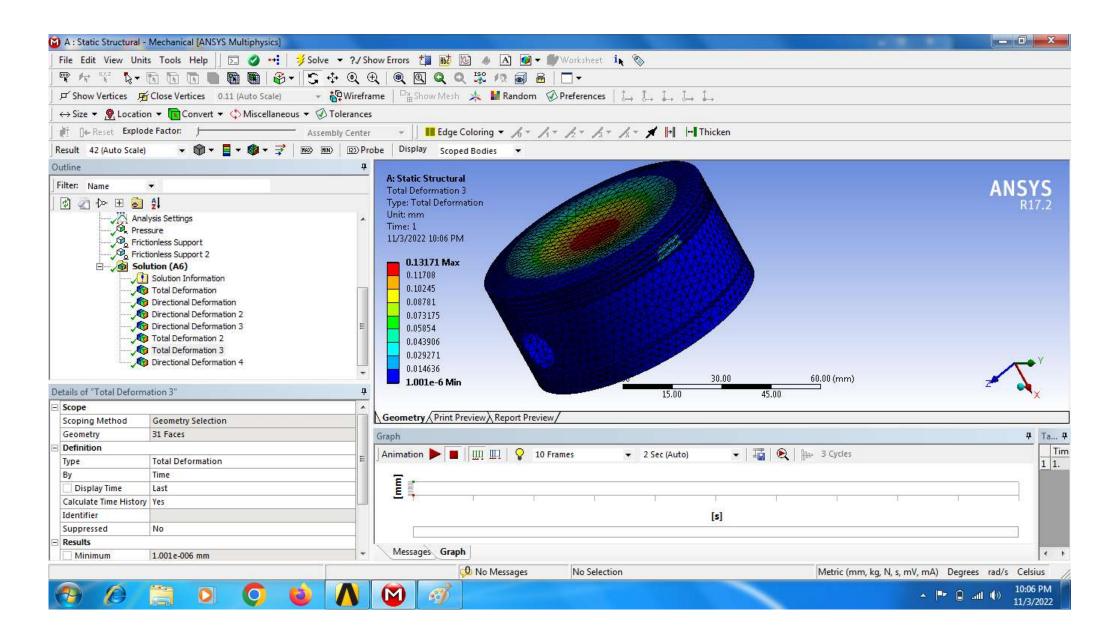
Directional deformation



Directional deformation



Total deformation



Total deformation