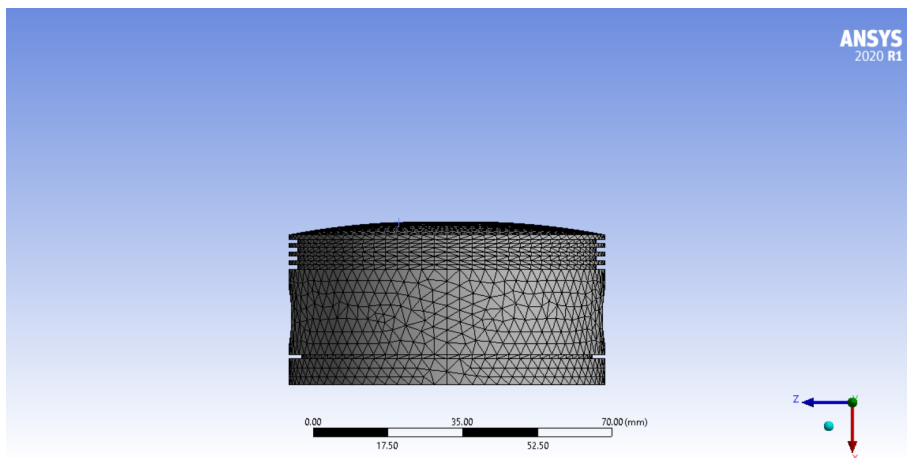
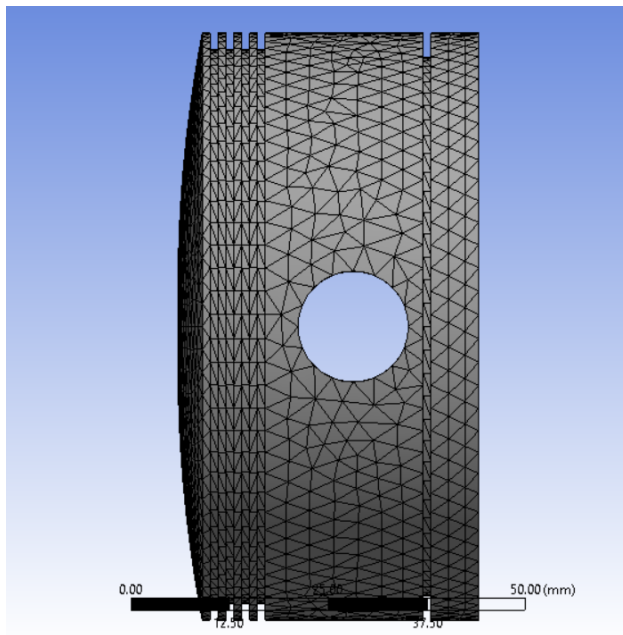


Question 2: Static Structural Analysis

- **Meshing Details:**

1. Meshing Methods= Automatic
2. Body Sizing
3. Element Size= 3mm



- **Boundary Condition:**

1. . Material – Structural Steel
2. Pressure 5Mpa
3. Frictionless support

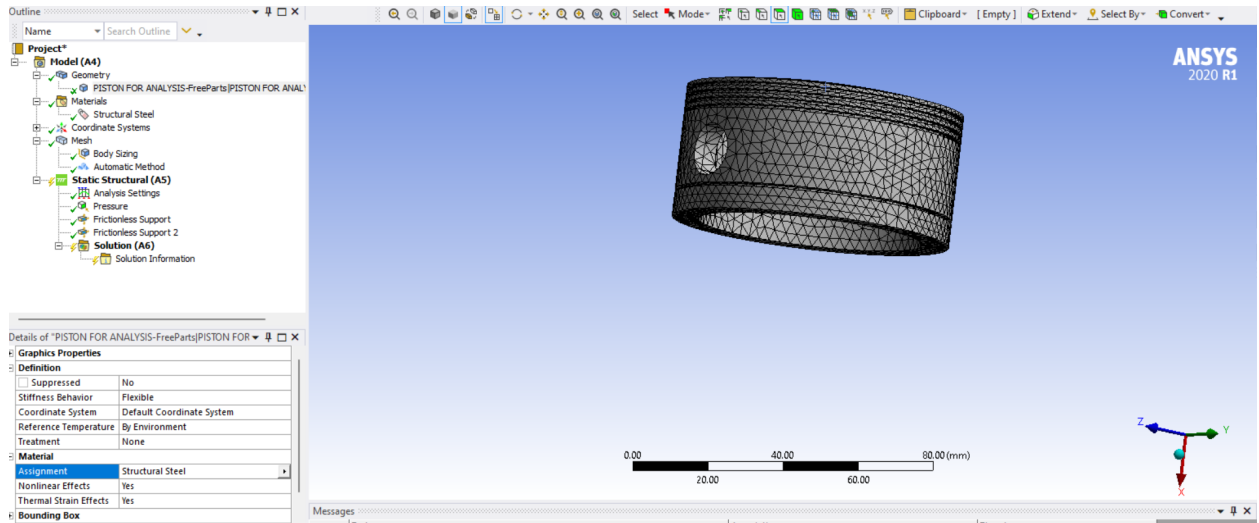


Image shows material assignment to model

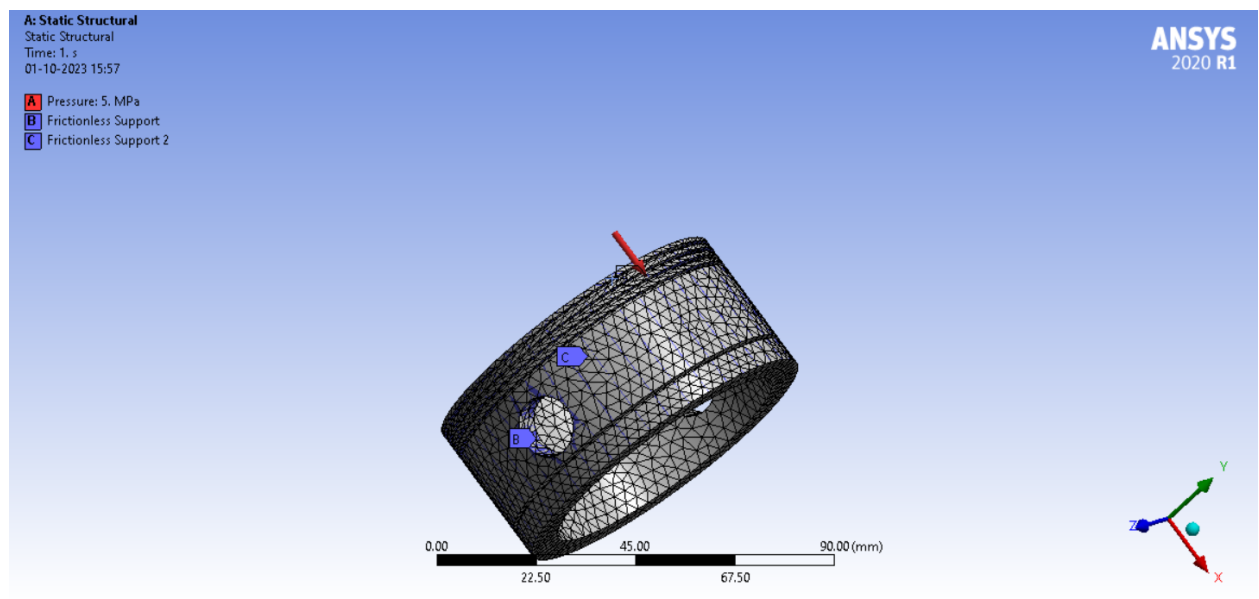


Image shows boundary conditions for model

- **Results to find:**
 - **Total Deformation**

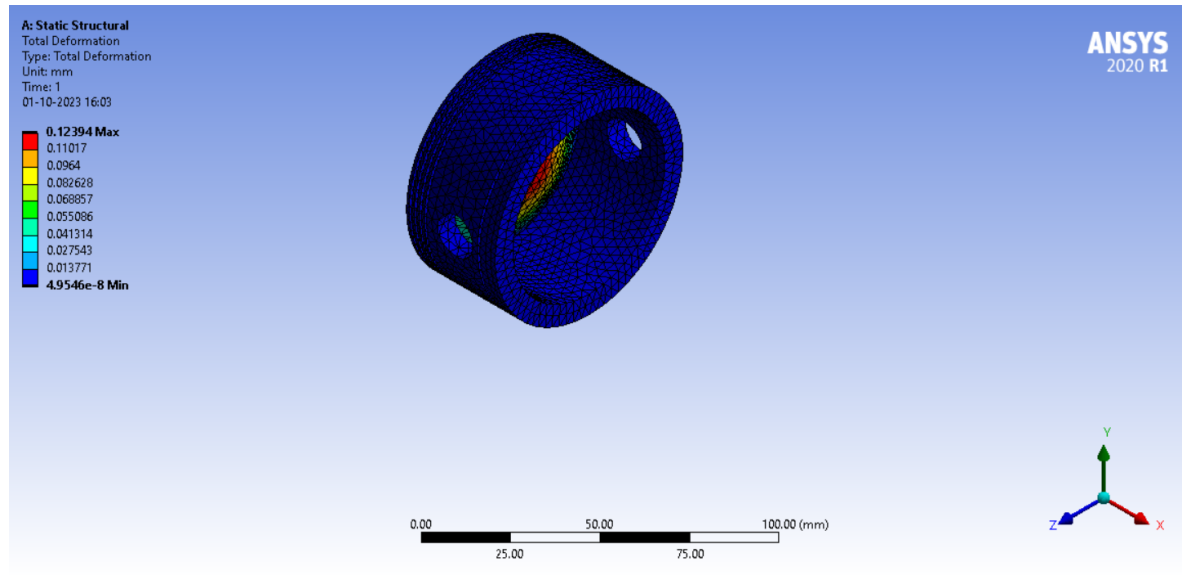
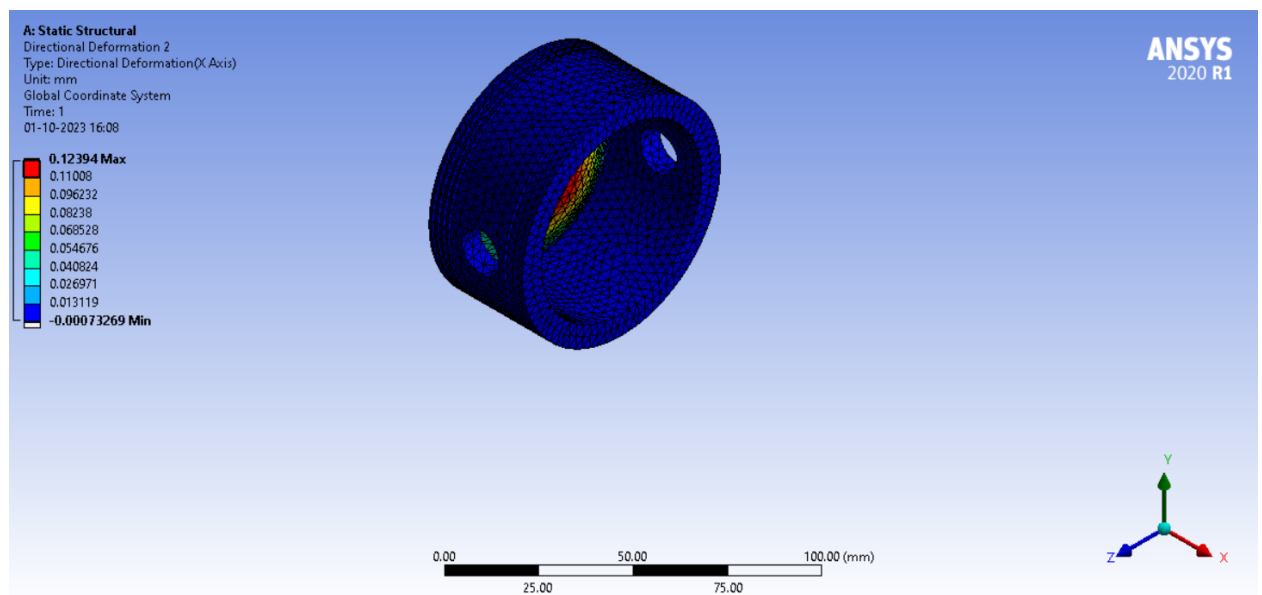
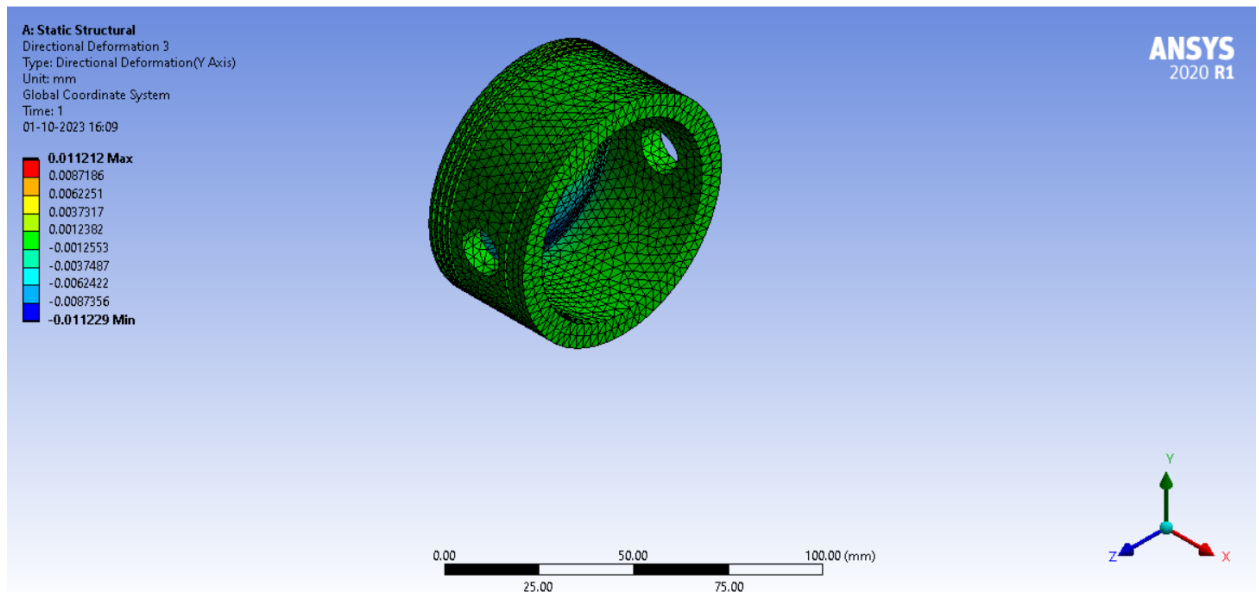


Image shows results for total deformation

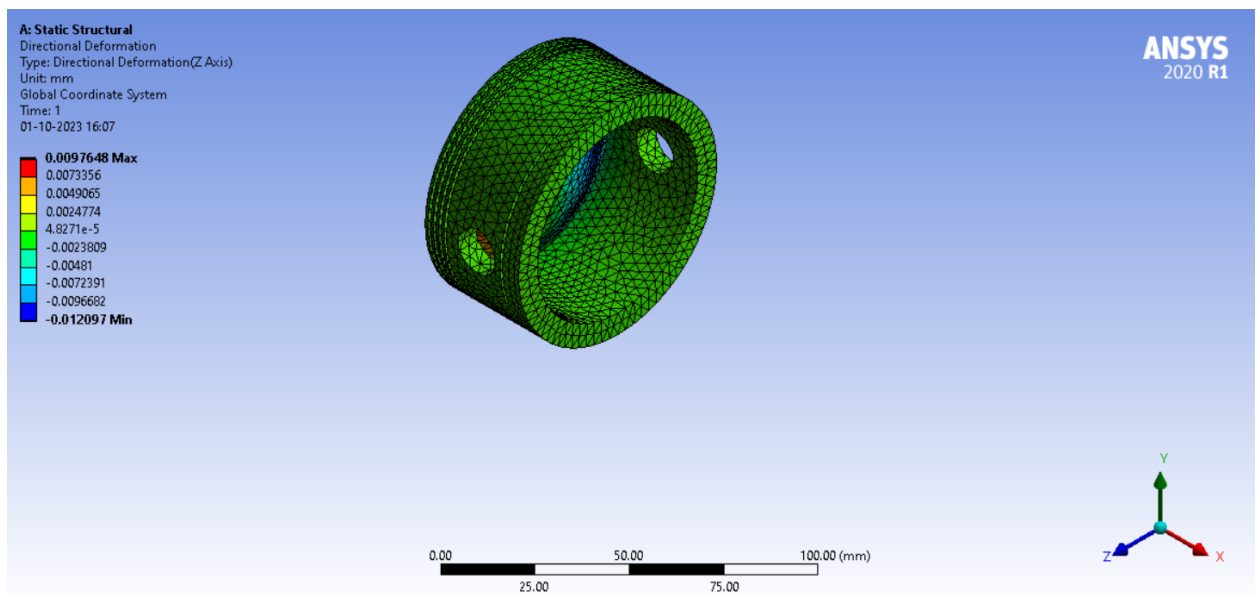
- **Directional Deformation:**



Directional deformation in X axis



Directional Deformation in Y axis



Directional Deformation in Z axis

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
- **Meshing Details :**
 1. Meshing Methods= Tetrahedrons (Patch Conforming)
 2. Body Sizing
 3. Element Size= 2mm