Questions 1 - Mesh the Geometry

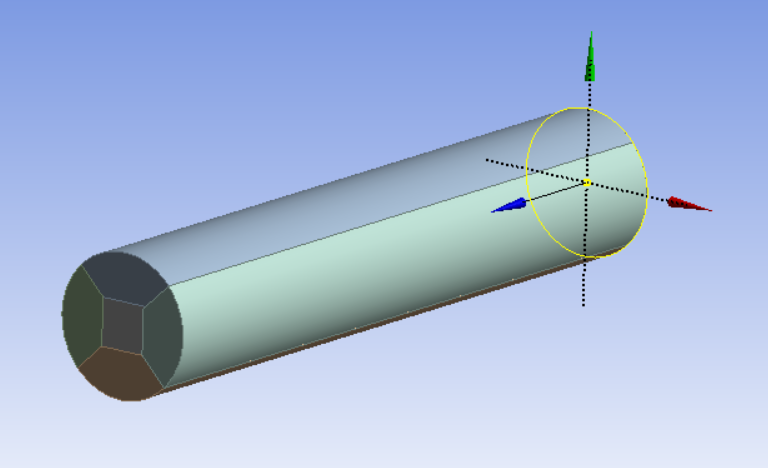
Geometry Detail’s

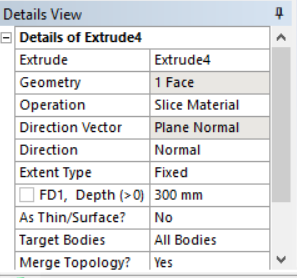
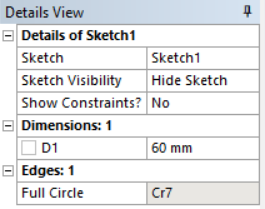
• Mesh the cylindrical PIPE as per the given instructions

• Dimension for PIPE

1. Diameter of pipe= 60mm

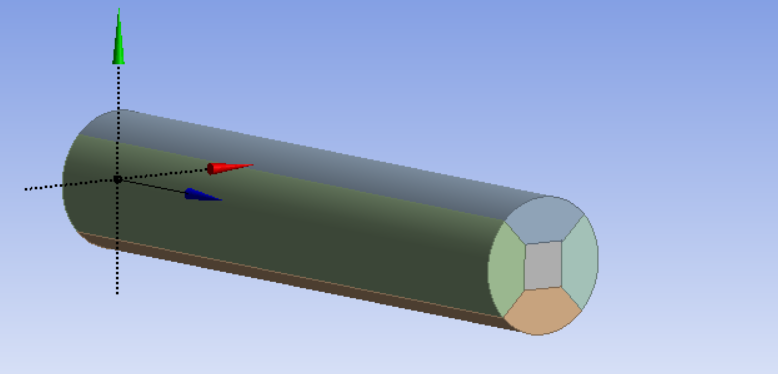
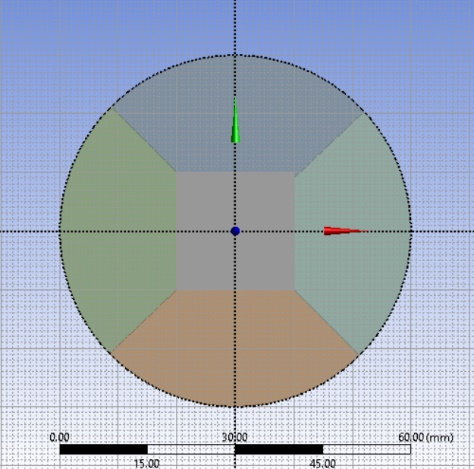
2. Length of pipe= 300mm





Decompose it into Following parts

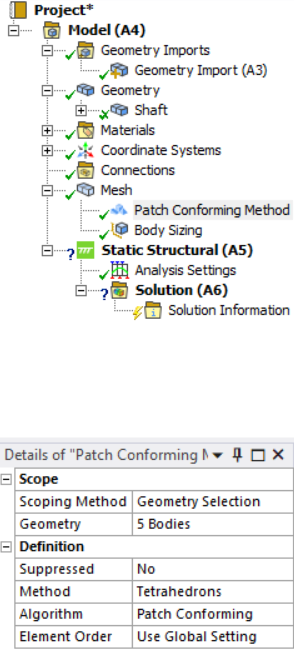
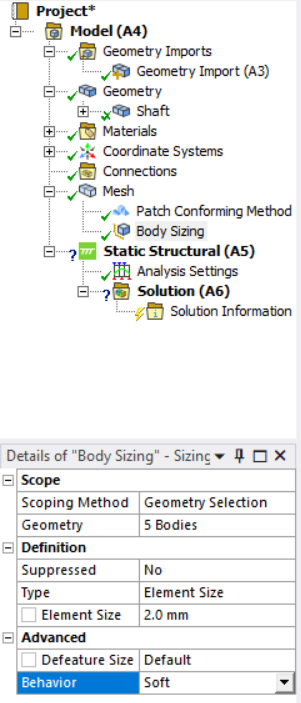
• After decomposition 5 parts will be there with different colour

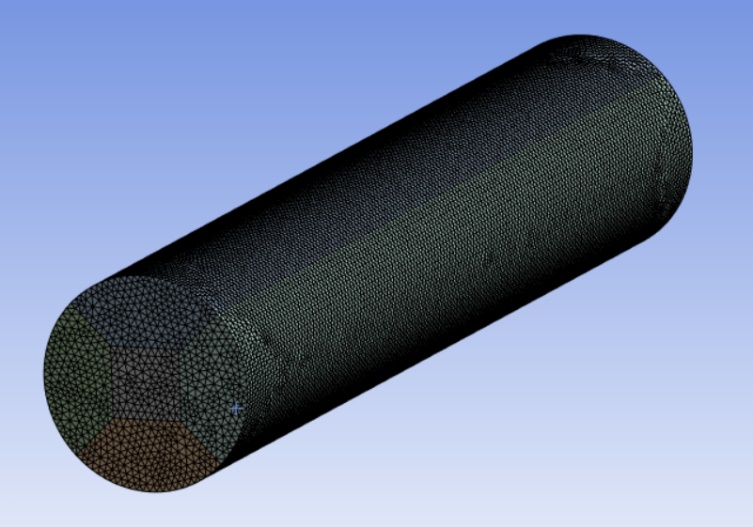


• Meshing Details

1. Meshing Methods= Tetrahedrons (Patch Conforming)

2. Body Sizing

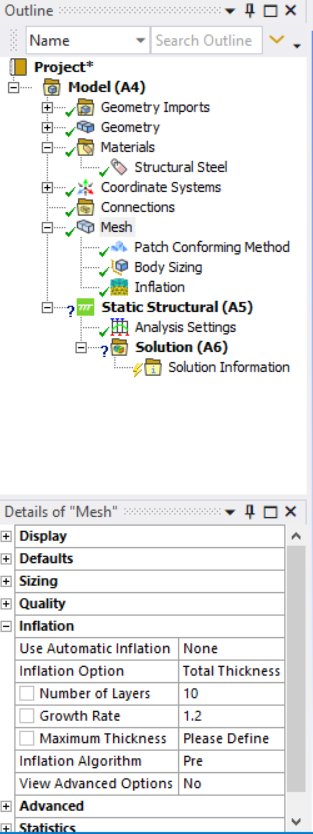
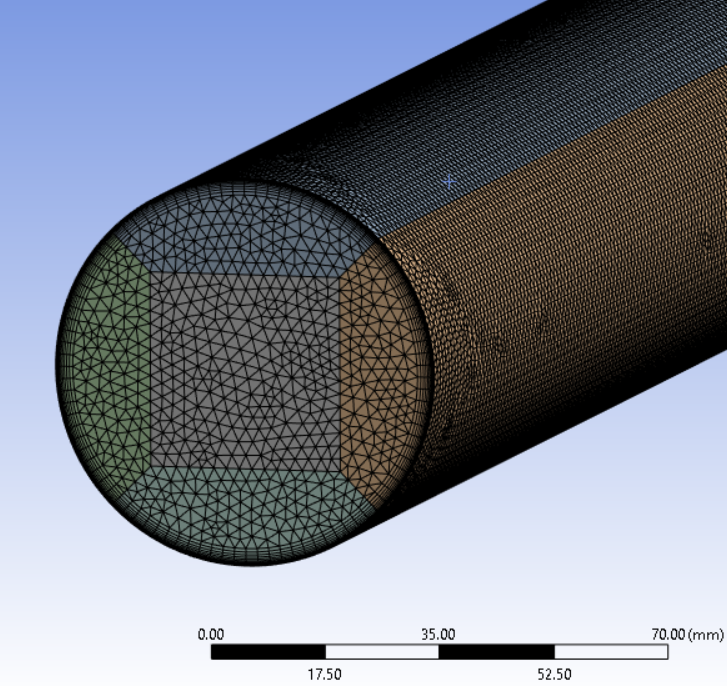
3. Element Size= 2mm

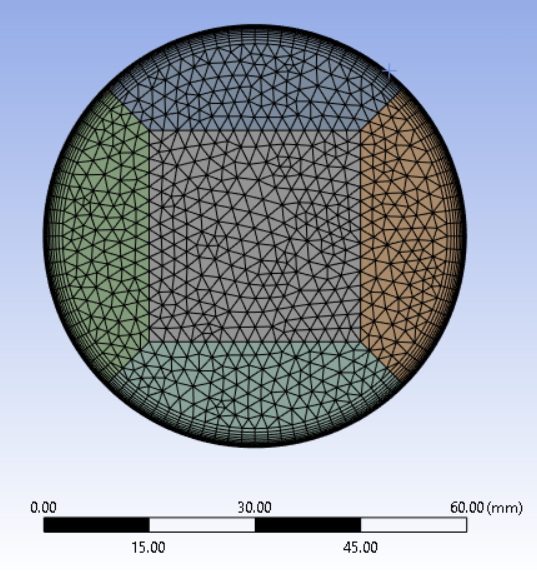


Inflation layer

1. Max layer=10

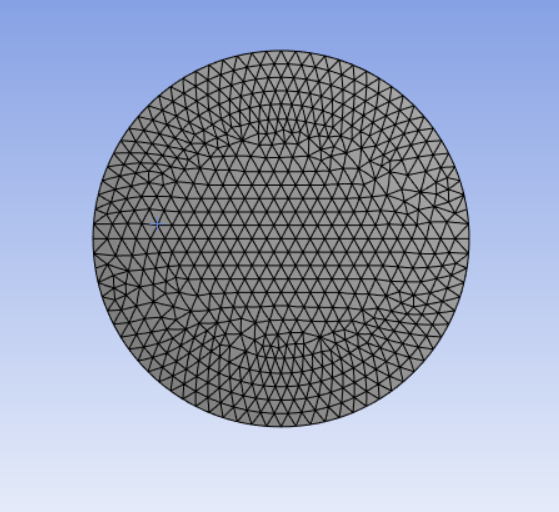
2. Growth-rate=1.2

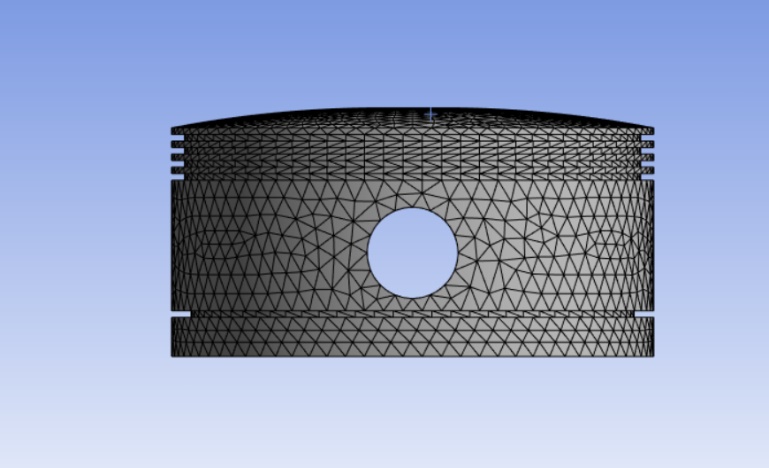
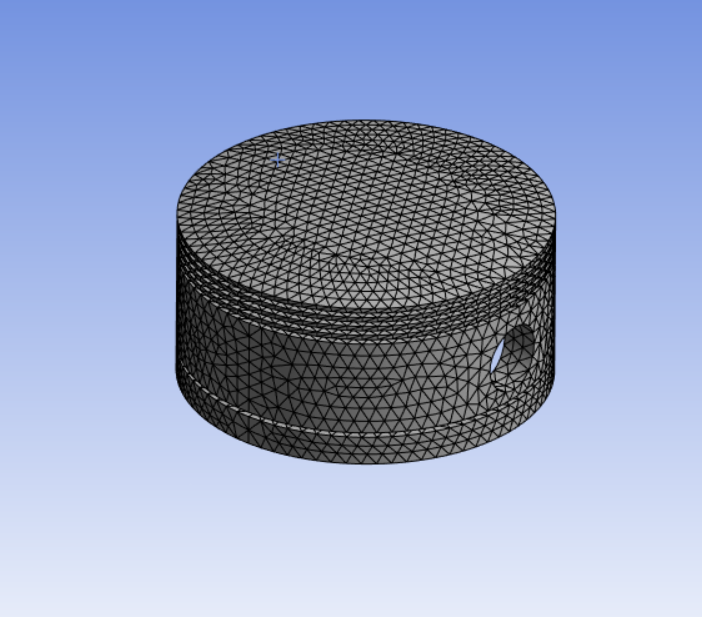


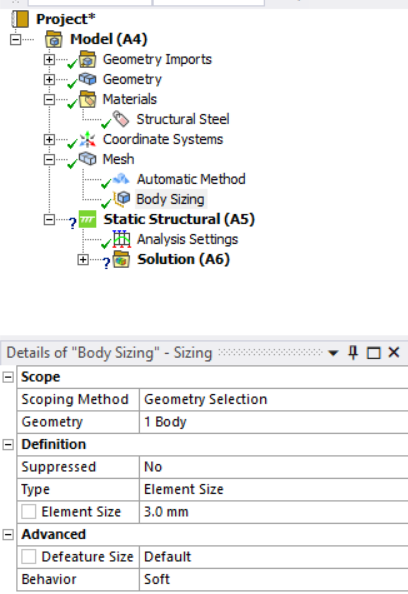
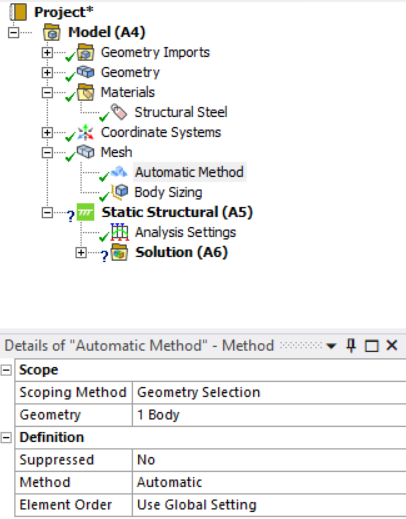


**Question 2**: Static Structural Analysis

• **Meshing Details** 4. Meshing Methods= Automatic, 5. Body Sizing, 6. Element Size= 3mm

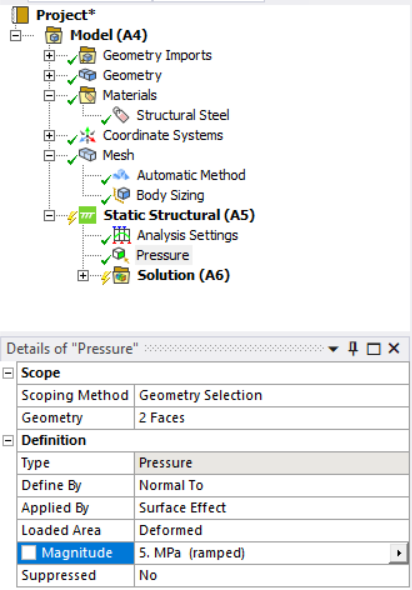


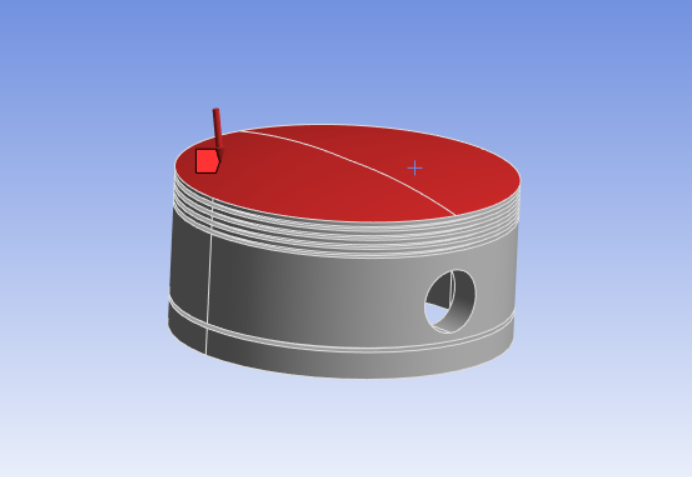


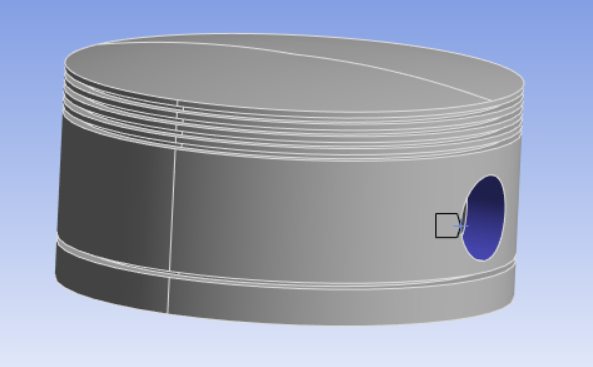


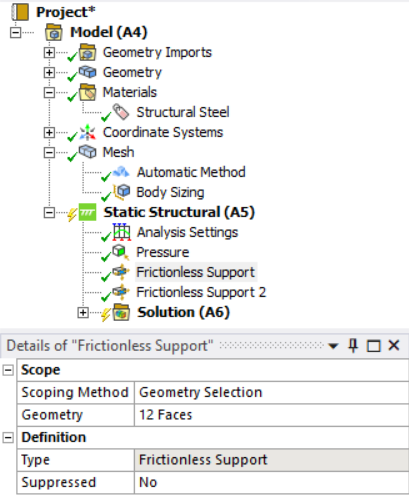
Boundary Condition

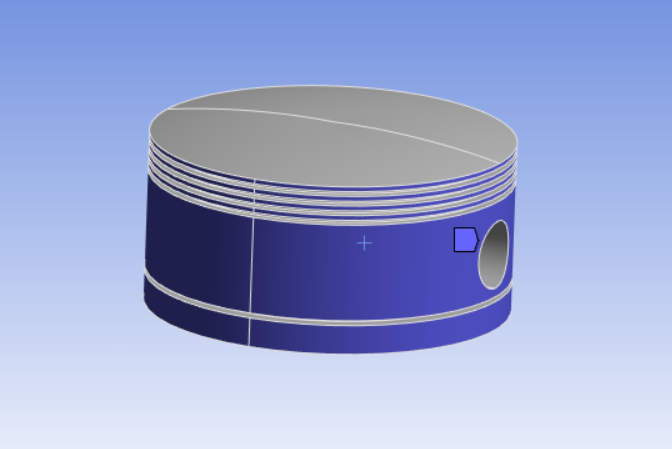
3. Material – Structural Steel 4. Pressure 5Mpa 5. Frictionless support











**Results to find**

6. Total Deformation 7. Directional Deformation

