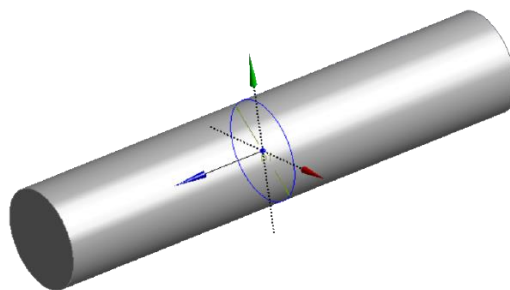
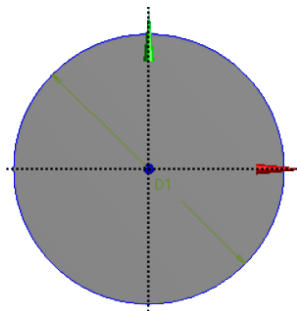


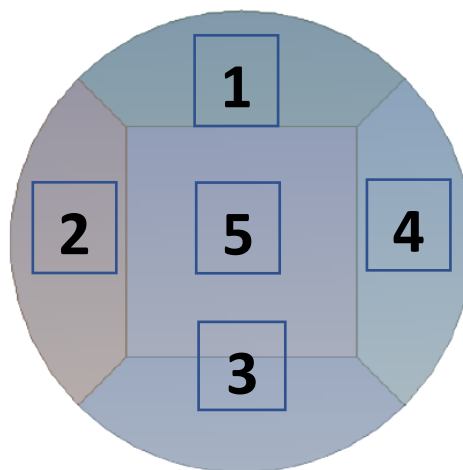
Questions 1 - Mesh the Geometry

Geometry Detail's

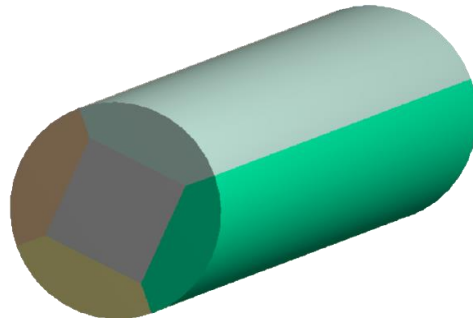
- Mesh the cylindrical PIPE as per the given instructions
- Dimension for PIPE
 1. Diameter of pipe= 60mm
 2. Length of pipe= 300mm



- Decompose it into Following parts

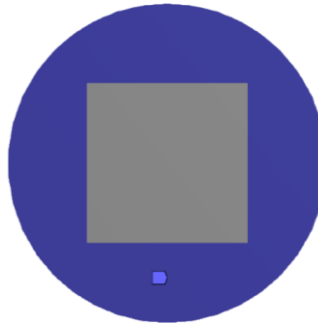
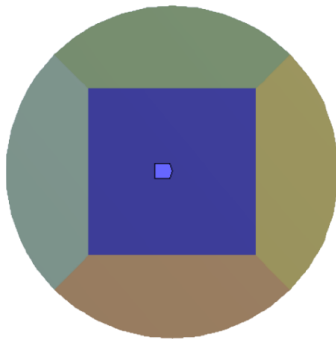


- *After decomposition 5 parts will be there with different colour*



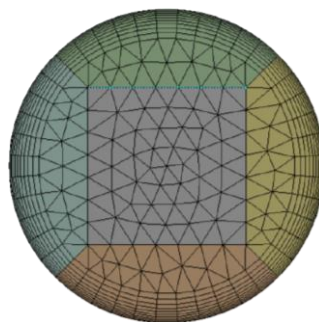
- **Meshing Details**

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



- **Inflation layer**

1. Max layer=10
2. Growth-rate=1.2



- **Submissions**

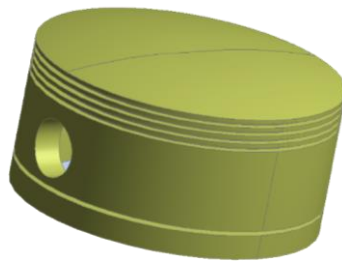
1. You need to make a report like this including following details
2. All the images of geometry with the Dimensions given (Front view, side view, top view) after decomposing it

3. Details of Meshing with Mesh methods body sizing inflation layer details & Mesh statistic
4. Mesh quality parameter should be there (Graphs of Skewness, Element quality, Orthogonal Quality)

Note Use snipping tool to capture images

Question 2: Static Structural Analysis

Geometry Detail's

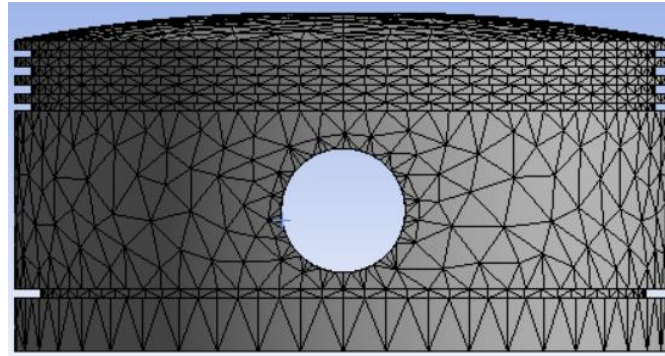


[To get the geometry File

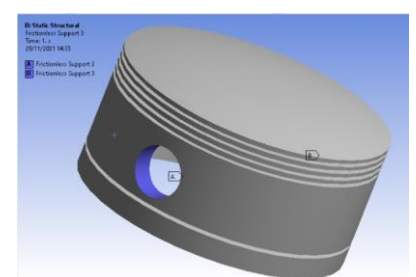
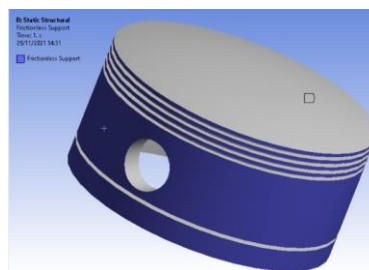
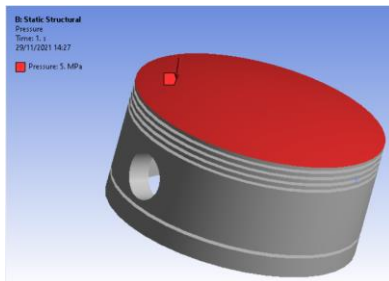
<https://drive.google.com/file/d/1VLJqNQmGcD398NX9Lgy1V-7UaxRMQJZD/view?usp=sharing>]

- **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
- **Submissions**
 5. You need to make a report like this including following details
 6. All the images of Mesh and analysis results must be included

***Note** Use snipping tool to capture images*