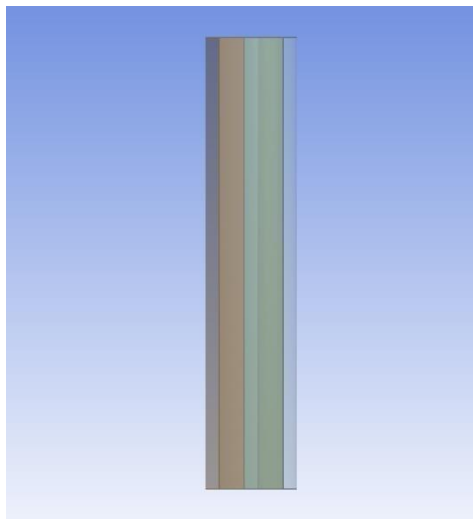
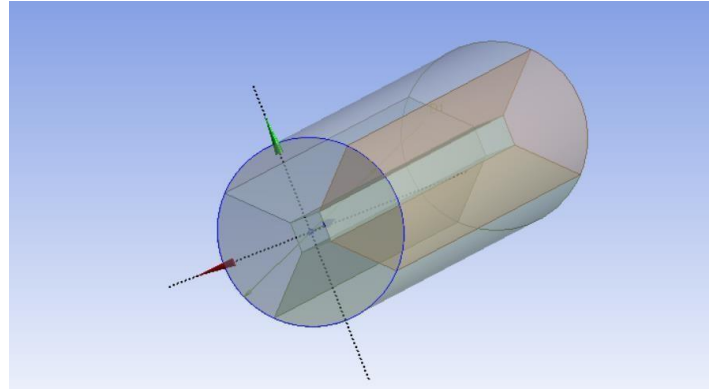
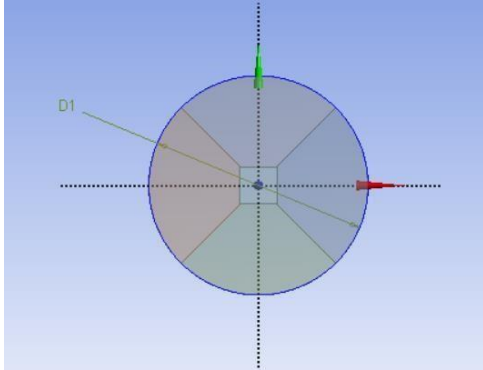
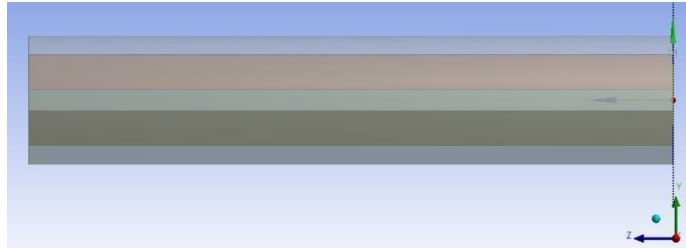


QN1.MESH THE GEOMETR - (CYLINDRICAL PIPE)





Details of Meshing with Mesh methods body sizing inflation layer details & Mesh statistic

DIAMETER OF PIPE :60 mm

LENGTH OF PIPE : 300 mm

1. Meshing Methods= Tetrahedrons (Patch Conforming)

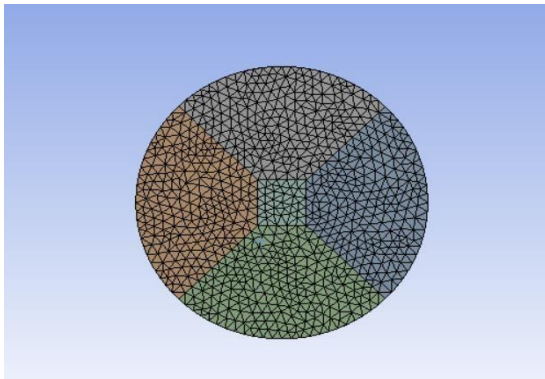
2. Body Sizing 3. Element Size= 2mm

3.Max layer=10

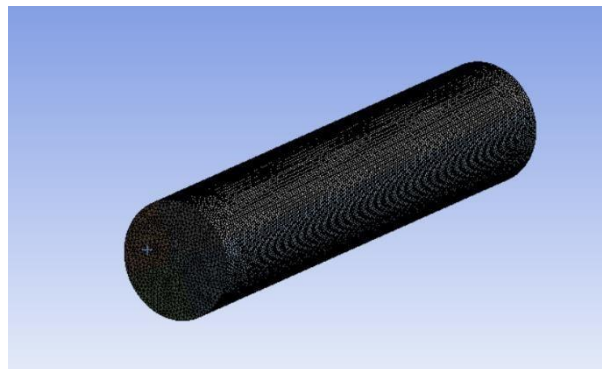
4.Growth-rate=1.2

5.Nodes = 1317957, Elements = 925625

IMAGE AFTER MESH



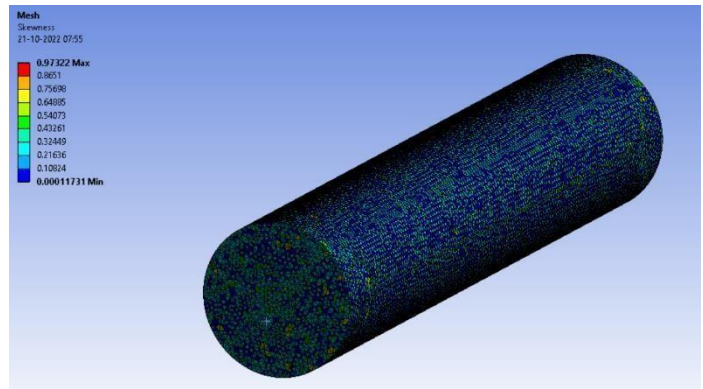
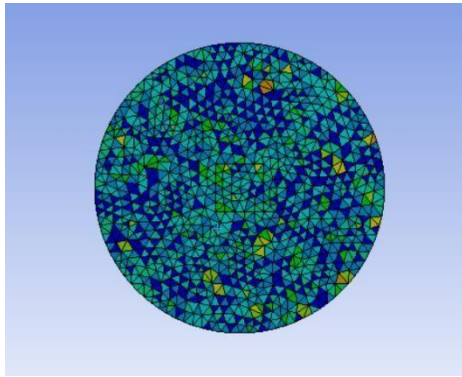
FRONT VIEW



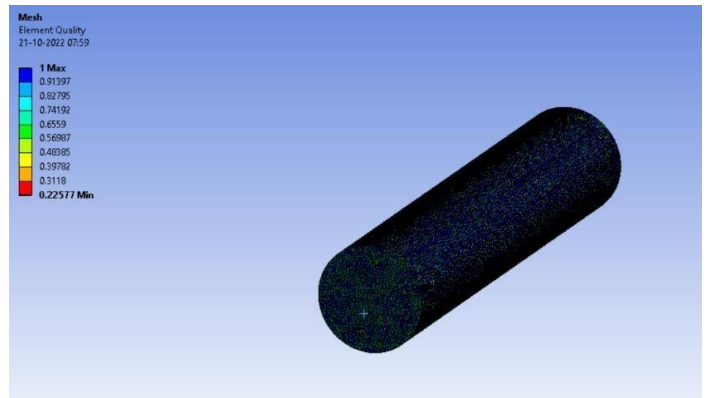
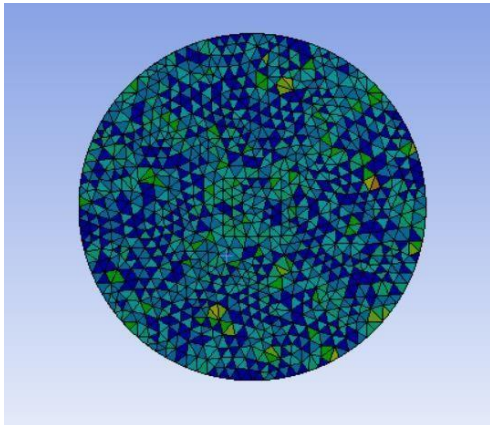
ISOMETRIC VIEW

Mesh quality parameter Graphs of Skewness, Element quality, Orthogonal Quality

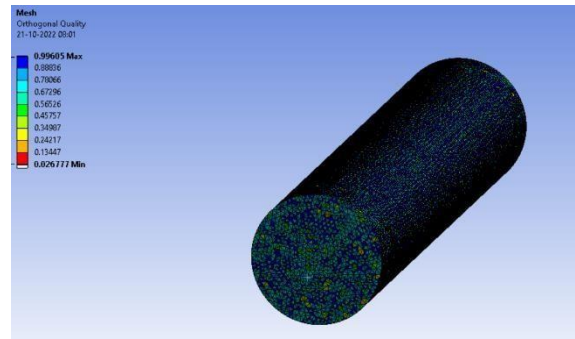
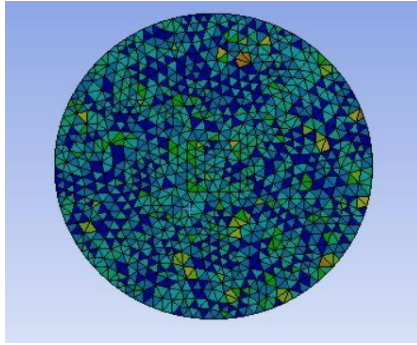
1. SKEWNESS



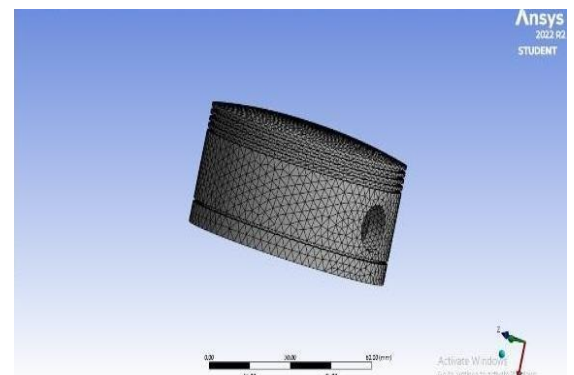
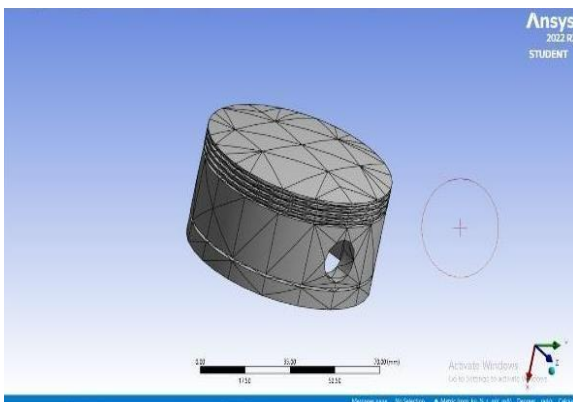
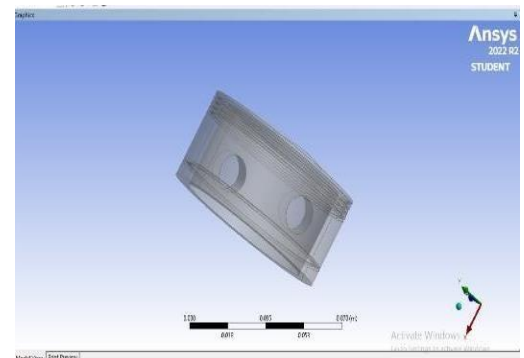
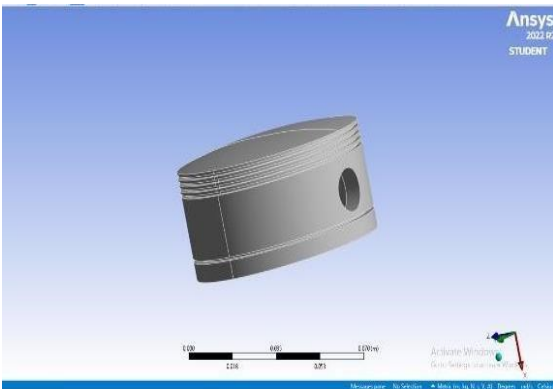
2. ELEMENT QUALITY



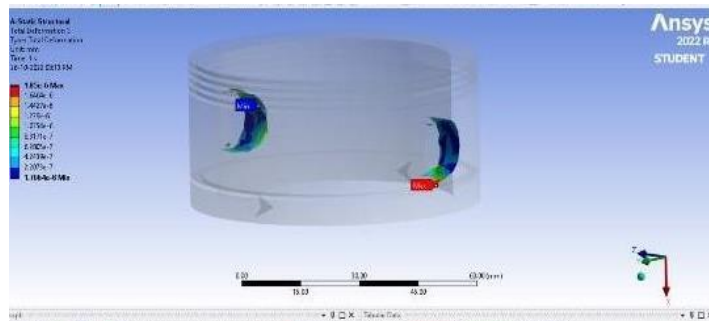
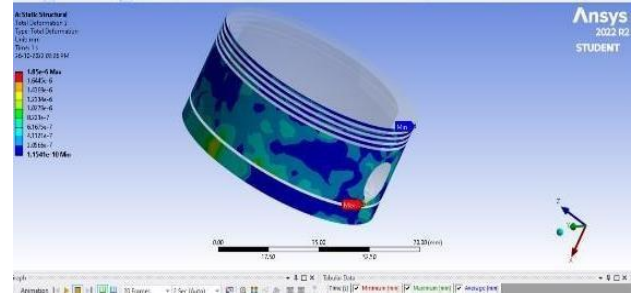
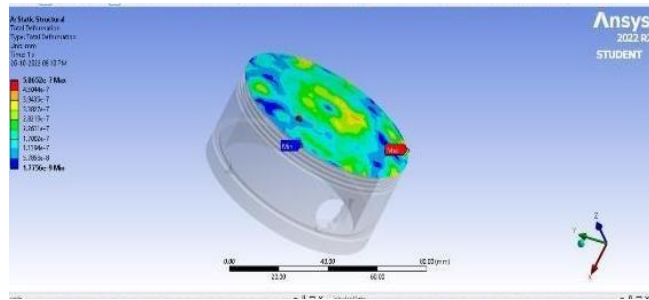
3. ORTHOGONAL QUALITY



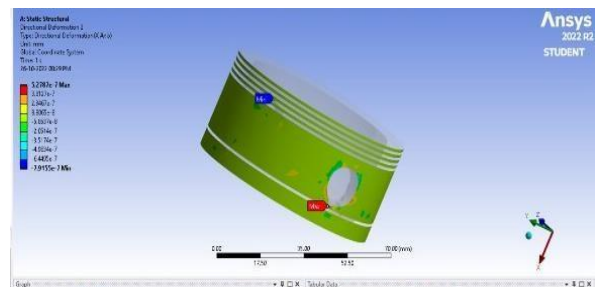
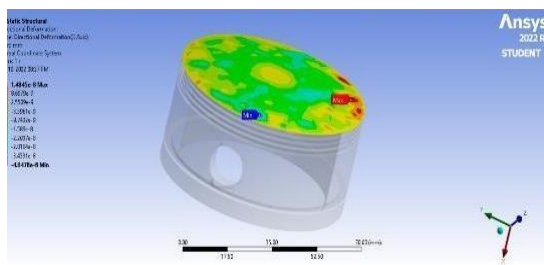
QN 2.STATIC STRUCTURAL ANALYSIS



Total Deformation



Directional Deformation



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STUDENT

Active Window
Geometrical Information: 1
Type: Shell and Deformation (K, A, U)
Units: mm
Basic Coordinate System
Time: 1 s
26-10-2022 08:12 AM

6.27E-1 / Max
2.04E-1
5.36E-2
1.4E-2
-8.21E-3
-4.85E-3
-1.37E-2
-5.31E-3
-2.69E-3
9.18E-2 / Min

0.00 2.33 120.00 (mm) 19.00

Length

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