PROJECT : BUILDING AND BRIDGES ANALY
MENTOR:DIVYANSH

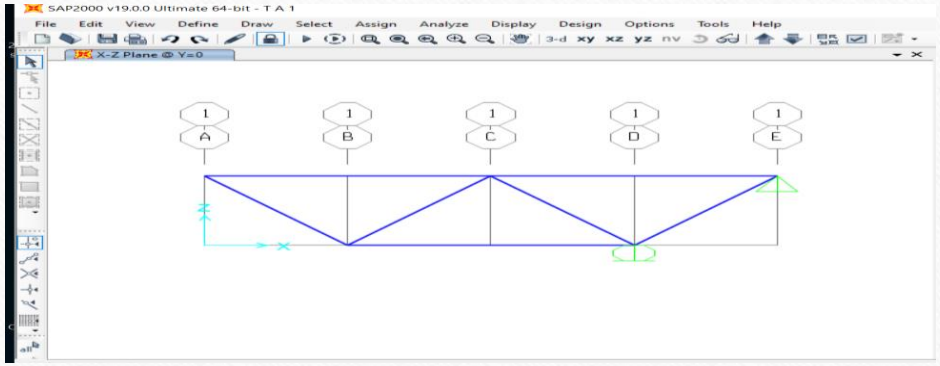
- OVER VIEW OF THE PROJECT TILL MID TERM
  - B&B Analysis

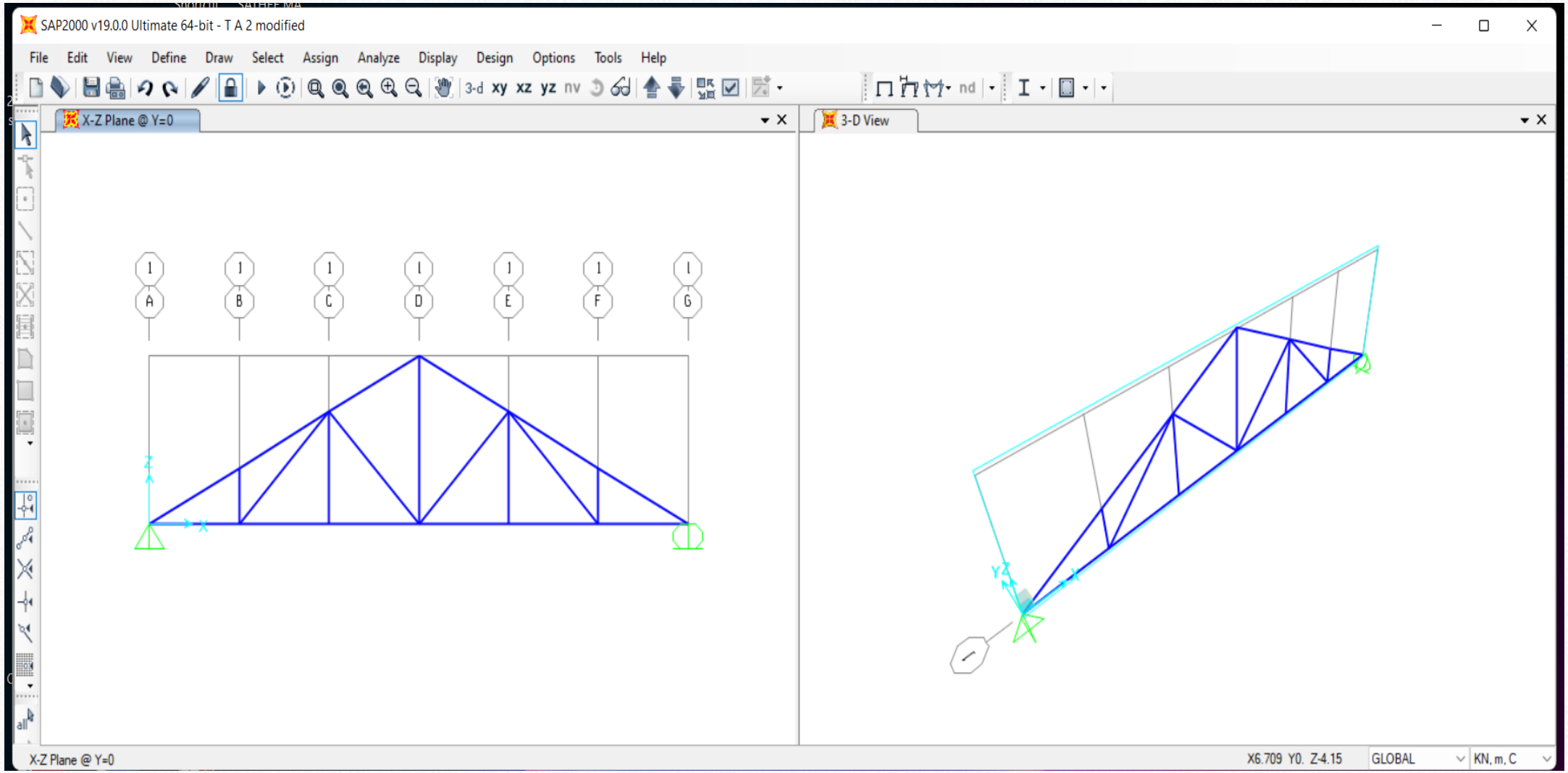
1. Week 1 - installation of software
2. Week 2 -Introduction to trusses and overview of Sap 2000
3. Week 3 - and modeling of truss bridge with a moving load .
4. Mid Term Evaluation

WEEK 2

Watched youtube videos on basic concept of trusses like support conditions, FBD of frame structures , stability of trusses , solutions of plane truss , method of sections.

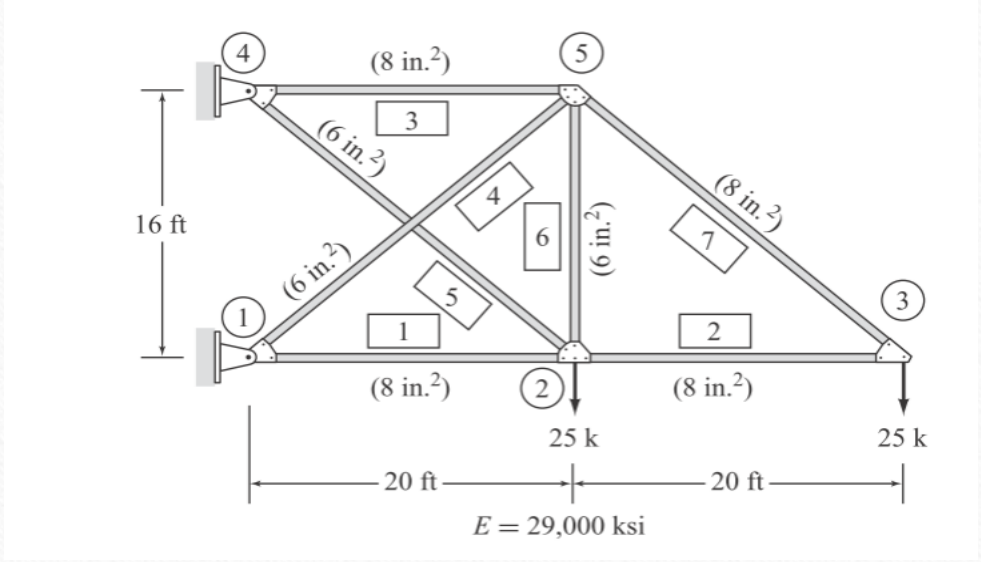
Started modelling the trusses in sap2000

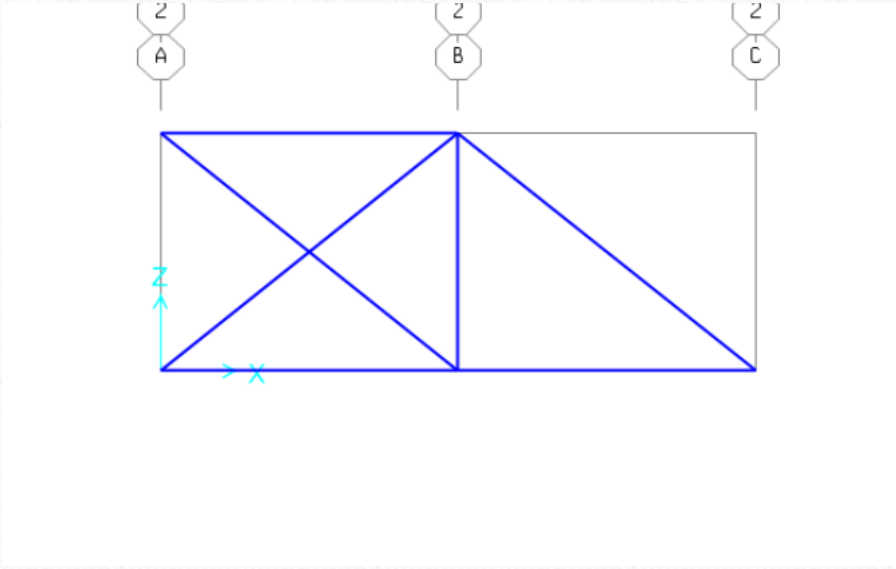


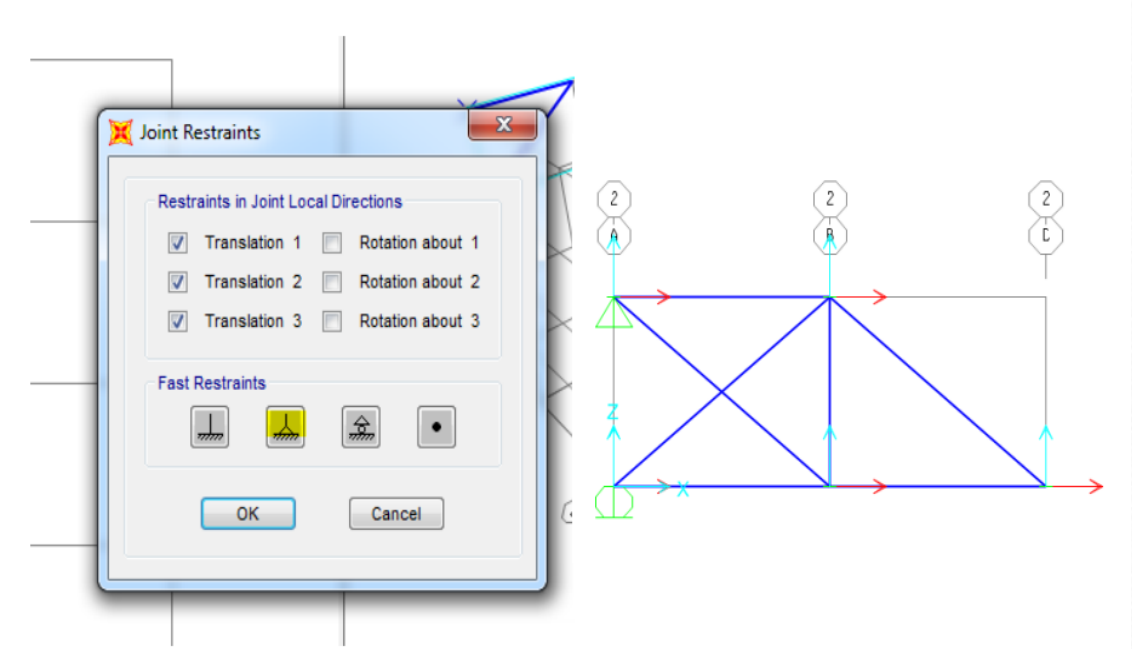

SAP2000 v19.0.0 Ultimate 64-bit - T A 2 modified
File Edit View Define Draw Select Assign Analyze Display Design Options Tools Help
X-Z Plane @ Y=0
3-D View
1 A
1 B
1 C
1 D
1 E
1 F
1 G
Z
X
Y
X-Z Plane @ Y=0
X6.709 Y0. Z-4.15
GLOBAL
KN, m, C

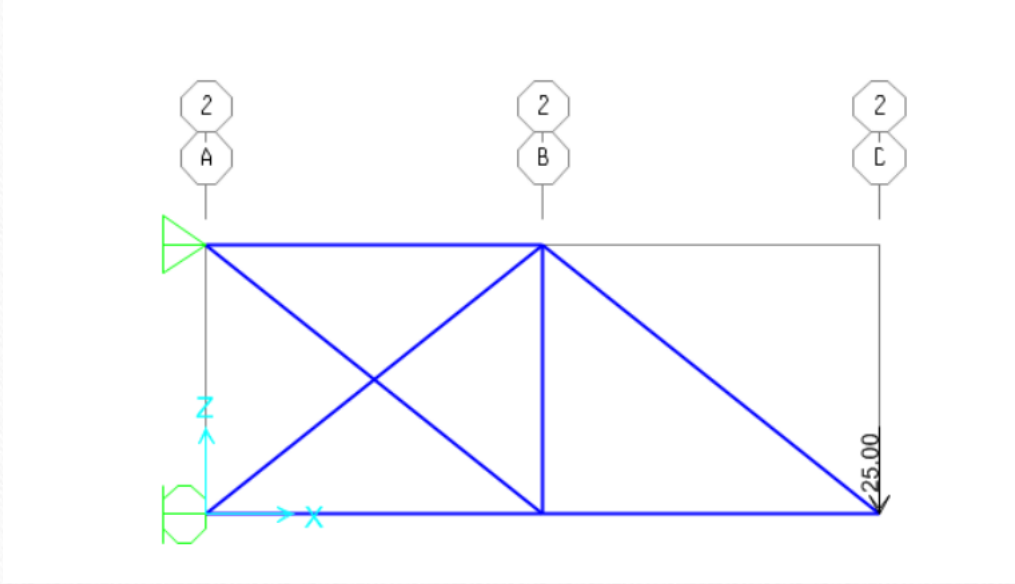
WEEK 3

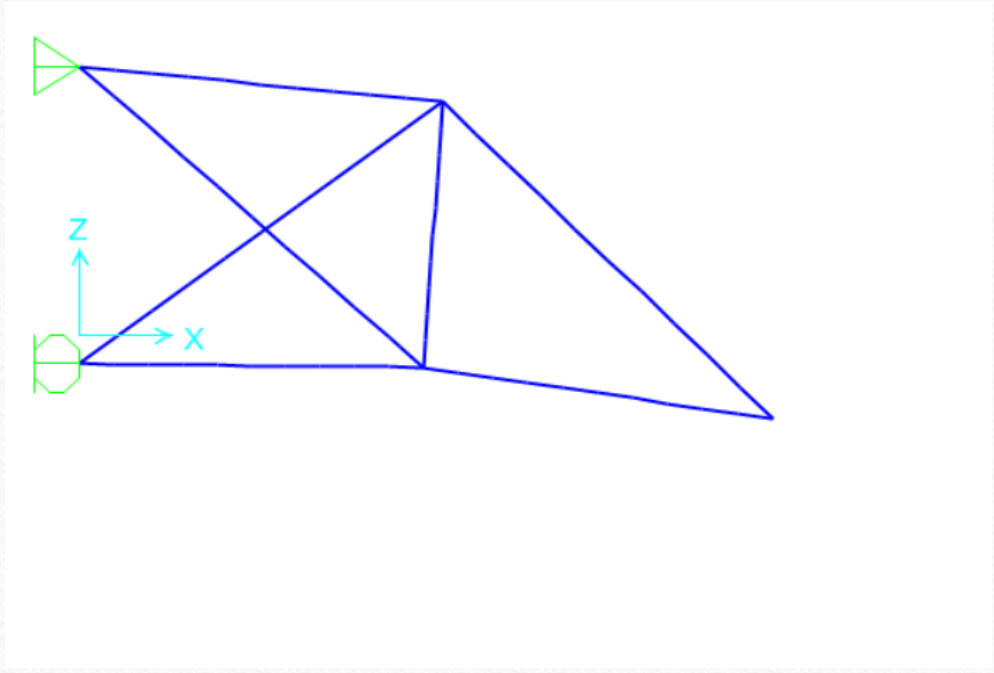
- Read the material given by mentor and solved assignment problems on modelling of trusses

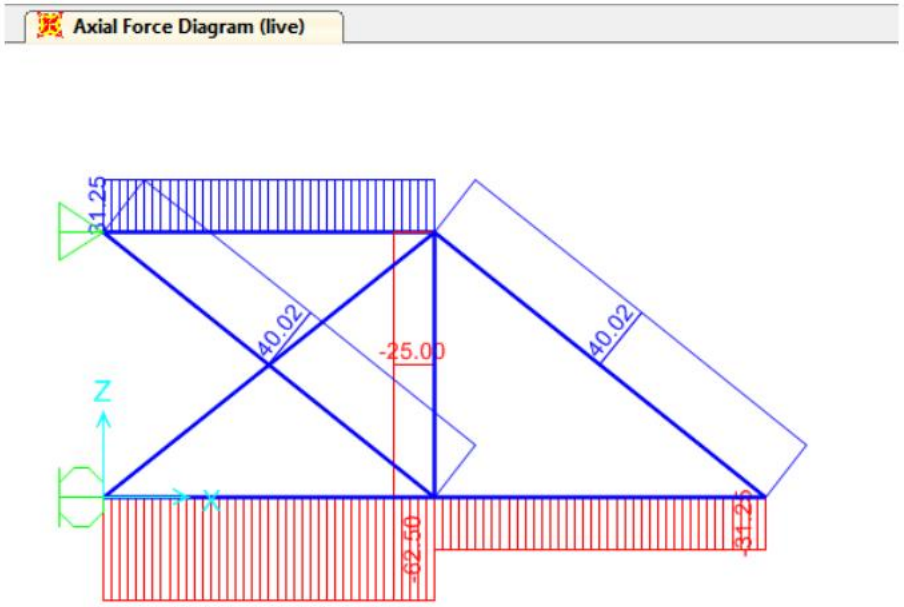





Joint Restraints
Restraints in Joint Local Directions
Translation 1
Translation 2
Translation 3
Rotation about 1
Rotation about 2
Rotation about 3
Fast Restraints
OK
Cancel
2
A
2
B
2
C
Z
X


2
A
2
B
2
C
Z
X
25.00


Z
X


Axial Force Diagram (live)
31.25
40.02
-25.00
40.02
Z
X
-62.50
-31.25

Thank You!!!