Date: 07/11/2019

Instructions

1. Create a folder named <rollno_lab5>, and save all the python programs as per the question numbers in this folder. For example: 1.py, 2.py, 3.py, etc.
2. The <rollno_lab5>.tar.gz or .zip of the above folder should be uploaded on Moodle.
3. File and folder names should be followed strictly as mentioned in the questions below (including case sensitivity).
4. Read all the questions carefully before you start answering them.
5. Post doubts if any in doubts forum on moodle

Questions:

1. Prepare GUI for a Truss model as shown in example.

    INPUT :

    No. of span = 7.

    Length of each span = 4 m .

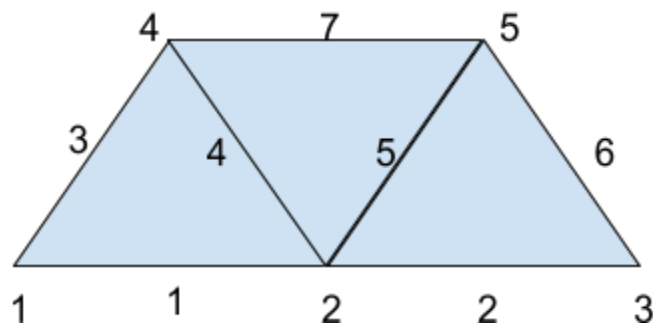   Height of truss = 3 m.

    OUTPUT:

    NCM :-

1	1	2
2	2	3
3	1	4
4	2	4
5	2	5

6	3	5
7	4	5

ECM:

1	2	3	4	5	0
2	1	4	5	6	0
3	1	4	7	0	0
4	1	2	3	5	7
5	1	2	4	6	7
6	2	5	7	0	0
7	3	4	5	6	0

CM :

1	1	0	0	2	4	0
2	2	4	0	3	8	0
3	1	0	0	4	2	3
4	2	4	0	4	2	3
5	2	4	0	5	6	3
6	3	8	0	5	6	3
7	4	2	3	5	6	3

OUTPUT TRUSS WITH NODE AND ELEMENT NUMBER