C:\Users\CCLaptop\anaconda3\python.exe C:/Users/CCLaptop/Desktop/
Nho-m-1-project-1/Trusses2D.py

```
Global Stiffness Matrix of the Truss
 [[ 102859.126965
                       0.
                                 -102859.126965
                                                      0.
        0.
                       0.
                               ]
 0.
                 115000.
                                      0.
                                                     0.
        0.
                 -115000.
                                                -38095.97295
 [-102859.126965
                                 145451.719558
                       0.
   -42592.592593
                  38095.97295 ]
                                 -38095.97295
                                                 34074.074074
       0.
                       0.
   38095.97295
                  -34074.074074]
       0.
                       0.
                                 -42592.592593
                                                 38095.97295
   42592.592593 -38095.97295 ]
 0.
                 -115000.
                                  38095.97295
                                                -34074.074074
   -38095.97295
                 149074.074074]]
***Positive is Tensile
Negetive is Compressive***
```

Displacement matrix of nodes (mm)

```
[[ 0. ]
[ 0. ]
[-0.108696]
[-0.50196 ]
[ 0. ]
[-0.086957]]
```

Strain in the elements [[-2.429879e-05] [-2.173913e-05] [3.261072e-05]]

Stress in the elements [[-4.859757] [-4.347826] [6.522144]]

Process finished with exit code 0