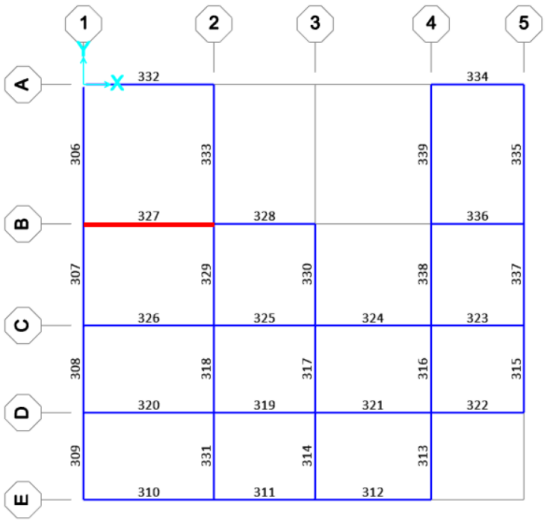
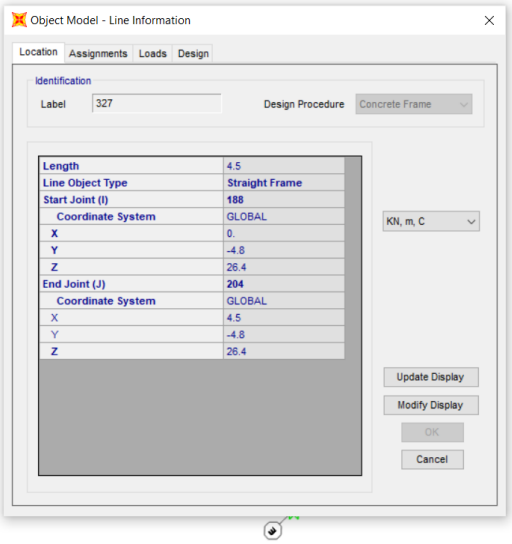
## Part C: For the mentioned load combinations, show the locations of the members (along with the member number in the model) where the design forces and moments are observed.

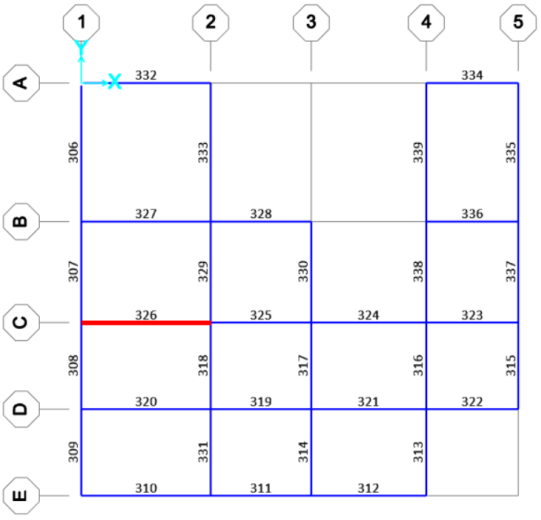
**The frames having maximum shear force and bending moments for different load combinations are shown below. We have taken maximum shear force and bending moment as the design value of the respective quantities.**

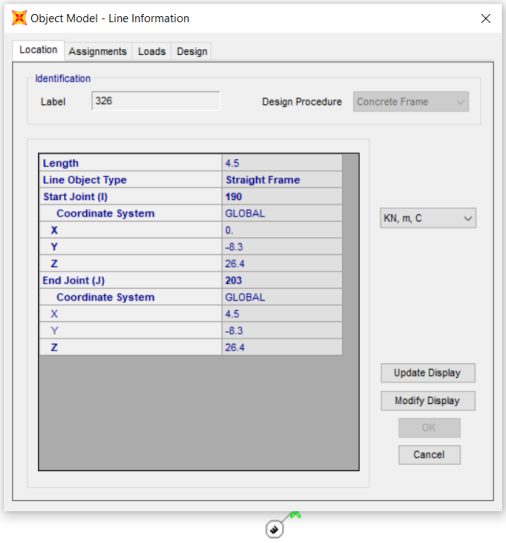
1. Beams with Load Combination 1.5(DL + LL).

   Max shear force = 86.58 kN , Corresponding Frame 327
   Max moment = 71.915 kN-m , Corresponding Frame 326



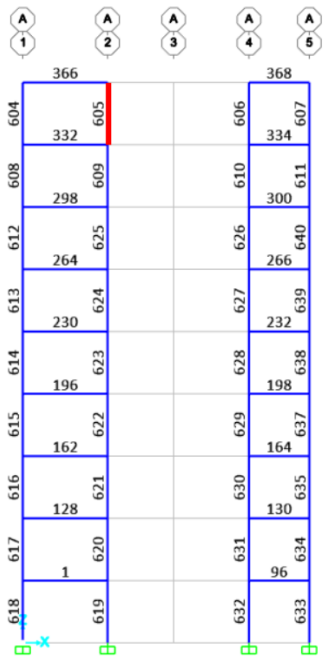



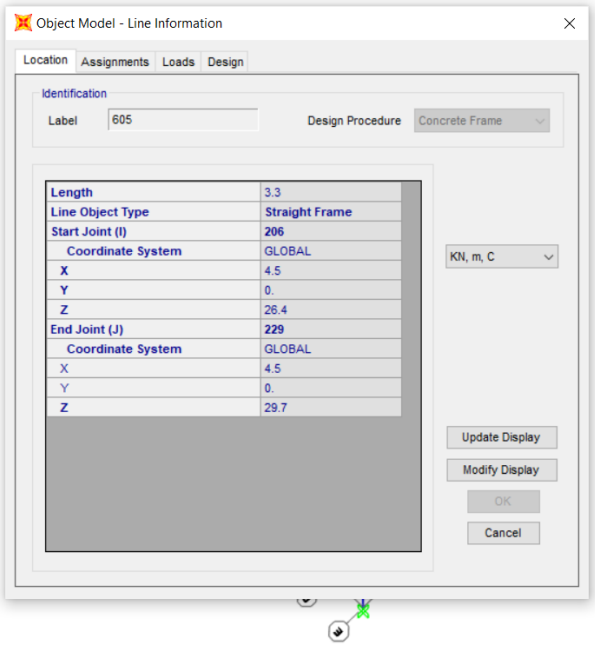



2. Columns with Load Combination 1.5(DL + LL).

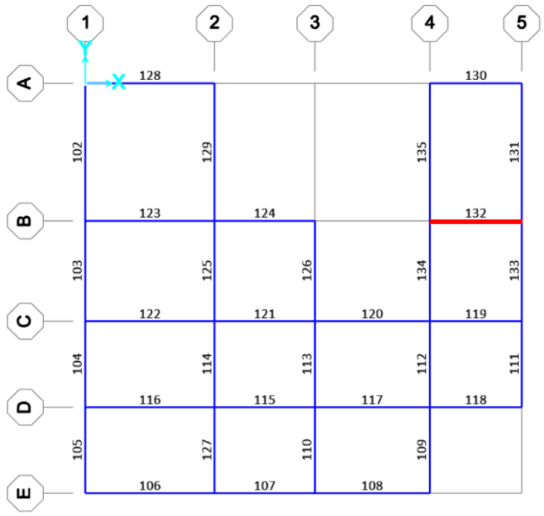
   Max shear force = 20.146  kN , Corresponding Frame 605
   Max moment =  36.637 kN-m , Corresponding Frame 605

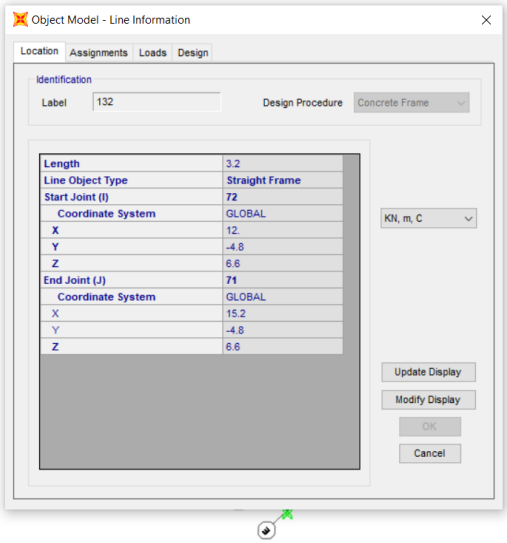


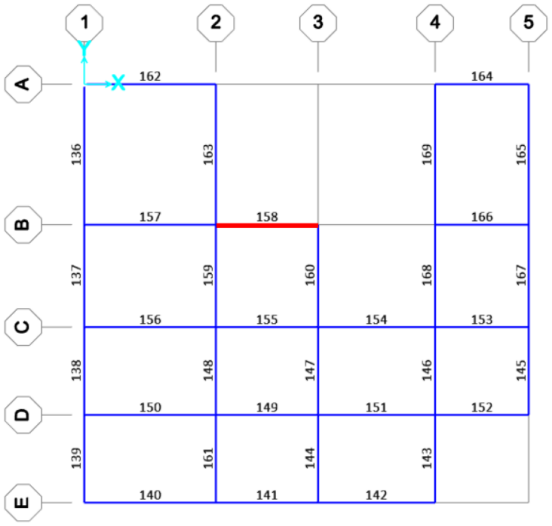



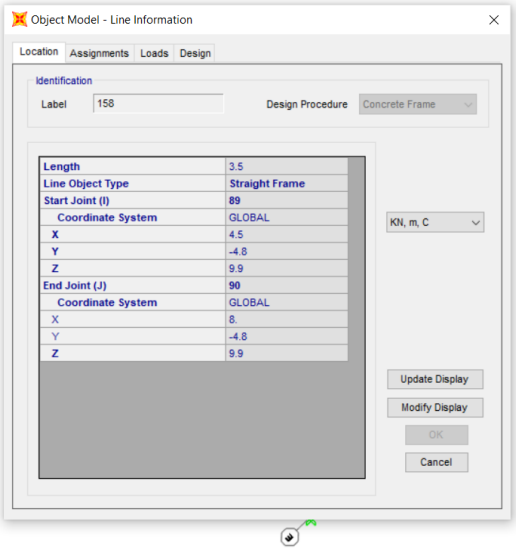
3. Beams with Load Combination 1.2(DL + LL + HL-X).

Max shear force = 102.731 kN , Corresponding Frame 132
Max moment = 132.195 kN-m , Corresponding Frame 158



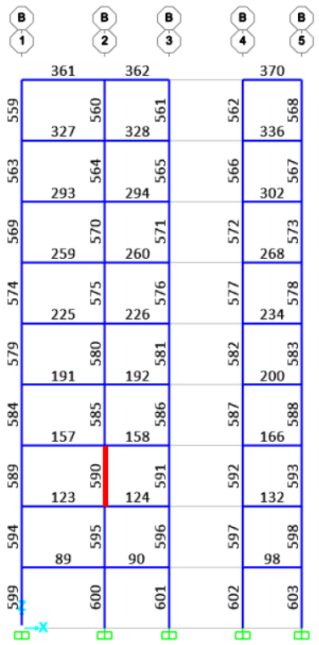



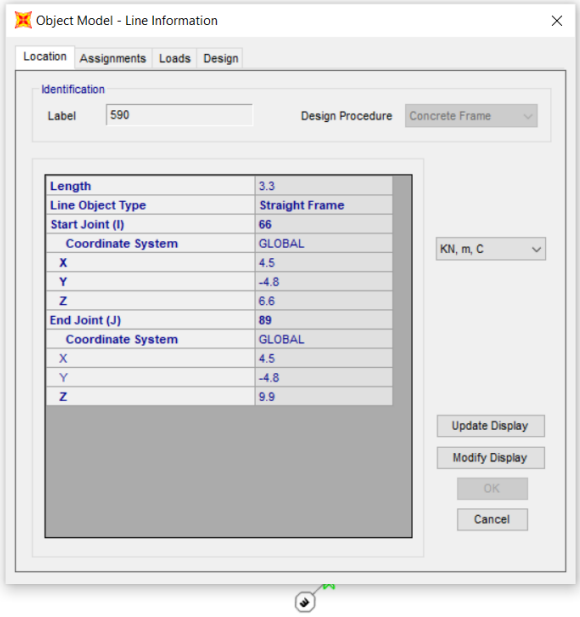



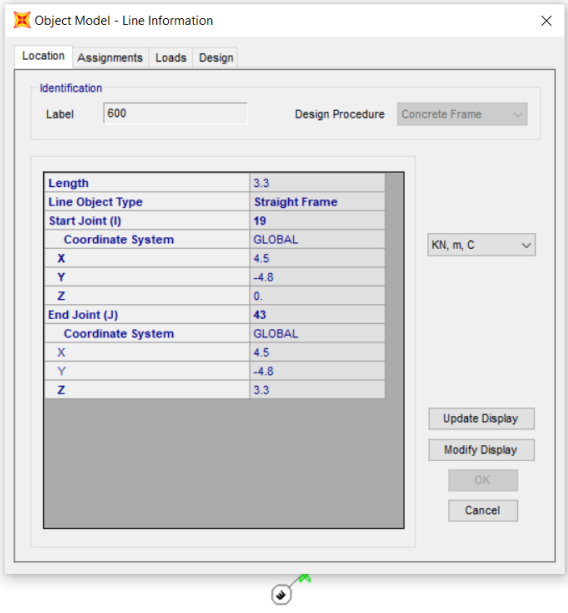
4. Columns with Load Combination 1.2(DL + LL + HL-X).

Max shear force = 71.44 kN , Corresponding Frame 590
Max moment = 140.425 kN-m , Corresponding Frame 600



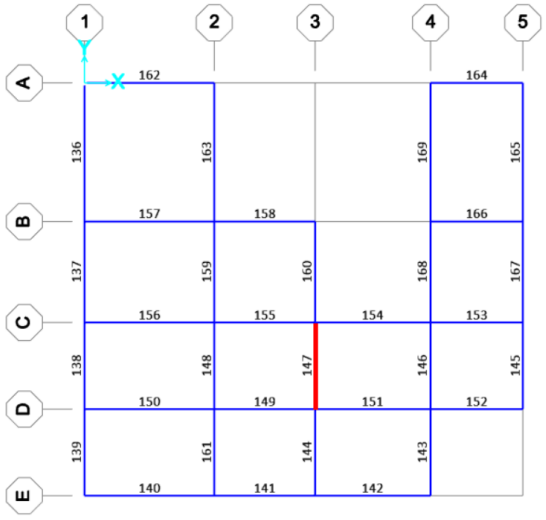



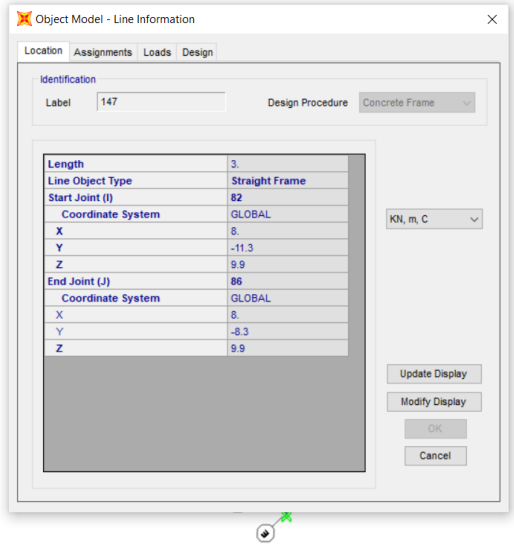


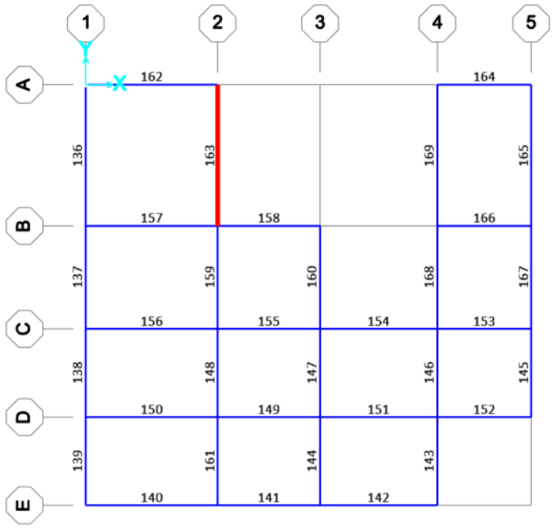


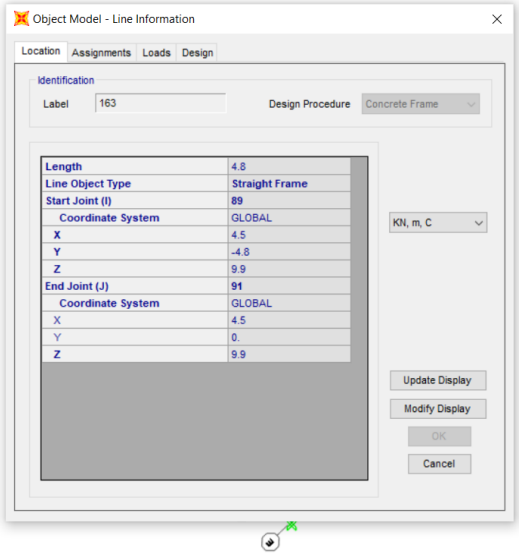
5. Beams with Load Combination 1.2(DL + LL + HL-Y).

   Max shear force = 89.928 kN , Corresponding Frame 147
   Max moment = 104.442 kN-m , Corresponding Frame 163



6. Columns with Load Combination 1.2(DL + LL + HL-Y).

Max shear force = 54.644 kN , Corresponding Frame 546
Max moment = 112.328 kN-m , Corresponding Frame 556