**POST-TUTORIAL**:

1. Maximize

Z=4x+3yZ=4x+3y

Subject TO:

x≥0

y≥2

2y≤25–x

4y≥2x–8

y≤2x−5

Solve LP graphically using python

2. A cabinetmaker makes benches and desks. Each bench can be sold for a profit of $30 and each desk for a profit of $10. The cabinetmaker can afford to spend up to 40 hrs per week working and takes 6 hrs to make a bench and 3 hrs to make a desk. Customer demand requires that he makes at least 3 times as many desks as benches. Benches take up 4 times as much storage space as desks and there is room for at most four benches each week. Formulate this problem as a linear programming problem and solve it graphically.