A company produces two products, A and B. The sales volume for A is at least 80% of the total sales of both A and B. However, the company cannot sell more than 100 units of A per day. Both products use one raw material, of which the maximum daily availability is 240 lb. The usage rates of the material are 2 lb per unit of A and 4 lb per unit of B. The profit units for A and B are $20 and $50, respectively.

**Question1.** Construct a table that provides the basic information of the problem.

**Question2.** Define the Linear Programming (LP) Models in which the definition of the variables and the construction of the objective function and constraints of the model.

**Question3.** Use the Simplex Method to determine the product mix for the company.

**Question4.** Show the graphical LP solution of this model.

**Question5.** Find the LP solution with Excel Solver.