An individual wishes to invest $5000 over the next year in two types of investment: Investment A yields 5% and investment B yields 8%. Market research recommends an allocation of at least 25% in A and at most 50% in B. Moreover, investment in A should be at least half the investment in B.

**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 fund be allocated to the two investments.

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

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