1. A firm manufactures 2 types of products A & B and sells them at a profit of $2 on type A & $3 on type B. Each product is processed on 2 machines G & H. Type a requires 1 minute of processing time on G and 2 minutes on H. Type B requires 1 minute on G & 1 minute on H. The machine G is available for not more than 6 hrs. 40 mins., while machine H is available for 10 hrs. during any working day. Formulate the problem as LPP.

2. A transport company has two types of trucks, Type A and Type B. Type A has refrigerated capacity of 20 m3 and a non-refrigerated capacity of 40 m3 while Type B has refrigerated capacity of 30 m3 and non-refrigerated capacity of 30 m3. A grocer needs to hire trucks for the transport of 3,000 m3 of refrigerated stock and 4 000 m3 of non-refrigerated stock. The cost per kilo metre of a Type A is $30 and $40 for Type B. How many trucks of each type should the grocer rent to achieve the minimum total cost (formulating Mathematical modelling of LPP)