

# Lab2

## Problem 1:

- An organization makes many models of cars, where a model is characterized by a unique name and a suffix (such as GL or XL) and an engine size.
- Each model is made up from many parts and Each part has a description, an id code, production year, and many images.
- each part may be used in the manufacturing of more than one model.
- Each model must be produced at just one of the firm's factories, which are located in London, Birmingham, Bristol, Wolver Hampton and Manchester - one in each city. Each factory has a number of machines, capacity, and computer system used (OS, DBMS, Internet).
- A factory produces many models of cars and many types of parts.

## Problem 2:

- A country bus company owns a number of buses. A bus is characterized by number, No. of Chairs, Options (AC, Automatic, PS), and brand-name.
- Each bus is allocated to a particular route, although some routes may have several buses. Each route is described by KM, start point, end point and the duration.
- Each route can pass through a number of towns.
- A town may be situated along several routes. We keep track of unique name and station names in each town.
- One or more drivers are allocated to one route during a period of time. The system keep information about the driver name, mobile number , hire date, basic salary , job grade.
- The system keeps information about any changes in the allocations of the drivers to the routes.