

**WIA2002 Software Modelling**  
**Semester 1, 2016/17**  
**Tutorial 3**

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1. What is the distinction between model and diagram?
2. List out the advantages of object-oriented approach.
3. Define the following object's identity, state and behaviour:
  - a. An animal.
  - b. A vehicle.
  - c. A doctor.
  - d. A bank transaction.
4. Other than what is provided in the lecture notes, give one example of (1) Generalization and Specialization or (2) Inheritance. State the difference between concept (1) and (2).
5. Using the crow's foot notation, draw data models for the following entities:
  - a. Each employee is assigned to one job position.
  - b. A product line contains many products and each product belong to one product line.
  - c. A student can register for many courses and each courses can have many students registered.