

## **Software Engineering, CPSC-4360-01 and CPSC-5360-01 Tutorial 1**

**Exercise 1. (Farmer and Cow, Created by Centre for Instructional Technology, NUS, with the support of Dr. Bimlesh Wadhwa, Gerald Ng, Prasad Iyer, adapted from an example of Gary K. Evans, [www.evanetics.com](http://www.evanetics.com))** Once upon a time, there was a farmer called Jones. He owned a cow called “Bessie”. Everyday morning, he would milk his cow and sell the milk to the Milk Collection Centre (MCC). The MCC also collect milk from other farmers. Define a model for this application requirement: *On a particular day, find the total milk collected from the farmers.* Any cow accepts to be milk only by its owner. Try to model this application under the procedural approach and object-oriented approach.

**Exercise 2. (Genericity versus custom, [Sommerville, 2007], Exercise 1.2, page 18)** What are the differences between generic software product development and custom software product development?

**Exercise 3. (Software Engineering Myths)** Discuss the following software engineering myths:

1. A general statement of objectives is sufficient to begin writing programs - we can fill in the details later.
2. If we get behind schedule, we can add more programmers and catch up.
3. Project requirements continually change, but change can be easily accommodated because software is flexible.