Tutorial 1

1. Classify the following software as *custom*, *generic* or *embedded*.

a) A system to control the reaction rate in a nuclear reactor.
b) A program running inside nuclear power plant workers badges that monitors their radiation exposure.
c) A program used by administrators at the nuclear plant to write letters.
d) A system that logs all activities of the reactor and its employees so that if there is an accident, investigators can discover its cause.
e) A program to generate annual summaries of the radiation exposure of all the workers.
f) An education web site with an animation of how the reactor works.

2. How do you think the different stakeholders would react to the following situations?

a) You study a proposal for a new system that would completely automate the work of one individual in the customer's company. You discover that the cost of developi   ng to do the work manually   ct

b) You implement a sy   tions of a customer. However, when the software is put to use, th   ot solve their problem.

3. Which quality attributes would be the most and l   r the following systems?

a) A web based banking system
b) An air traffic control system.
c) A program that will display images or movies stored in all formats.
d) An application that lets you buy stuff while watching the appropriate TV channel.

4. How do software projects get started?

5. What is a use case? What is a domain model?

6. Describe requirements, technology, skills and political risks. Which is most costly? How can the risks be mitigated?

7. What happens during the elaboration stage?