Logic programming

- Exercises are given every week on the PL page of the SCG website (http://scg.unibe.ch/teaching/pl)
- Solutions to each assignment must be sent to mohammadreza.hazhirpasand@inf.unibe.ch
- The solutions of the assignments are to be delivered before every Thursday at 11 PM. Solutions handed in later than the specified time will not be accepted. In case of serious reasons send an e-mail to mohammadreza.hazhirpasand@inf.unibe.ch

Exercise (6 points)

1. We will build a genealogy that covers relations in a family. Consider a genealogy database consisting of the following predicates: (3 pts)

   female(X), male(X), parent(X, Y)

   Define rules allowing you to determine the following relations:

   grandfather(X, Y), grandmother(X, Y), grandparent(X, Y),
   grandson(X, Y), granddaughter(X, Y), grandchild(X, Y)

2. Using the following weekly schedule, write the necessary facts and a rule in order to output days as well as the associated programs and difficulty levels. (3 pts)

   monday - english - simple
   tuesday - programming - medium
   tuesday - ai - hard
   wednesday - hacking - hard
   thursday - networking - medium
   friday - pl - easiest