Lars Karlsson
March 7, 1999
HKGAB4 - Lab 9-10

Linköping University
IDA

Lab 9-10 : Quantification I

1 Goal

The goal of these labs is to practice with quantification. In particular, we focus on

- The Semantics of Quantification.
- Translating to and from Natural Language Sentences.
- Informal and Formal Proof Theory for the Quantifiers.

2 Preparation

The following should be done before the actual lab session:

- Read Chapter 5 in LFOL.
- The following LFOL exercises can be prepared ahead of time:

  LFOL, Chap. 5: Exercises 11, 14, 15, 26-31, 36-41.

3 Lab Exercises

The following lab exercises are obligatory and should be handed in unless explicitly stated otherwise.

Exercise	**SaveAs (Apple)**	**SaveAs (IBM)**
5.1, 5.2, 5.3	Sentences 5.x	5-x.sen
5.4, 5.5	Do not hand in.	
5.6	World 5.6	5-6.wld
5.7	Do not hand in.	
5.8	World 5.8	5-8.wld
5.9	Sentences 5.9	5-9.sen
5.11	Sentences 5.11	5-11.sen
5.12, 5.13	Do not hand in	
5.14,5.15	Sentences 5.xx	5-xx.sen
5.21,5.22	World 5.xx	5-xx.wld
5.26–5.31	World 5.xx	5-xx.wld

In addition, do the following exercises from LoFOL in Hyperproof. The problem files are in the Hyperproof folder LoFOL. To do the problem, simply click on the problem file. It will be loaded and the file name under which you should save the solution will automatically be set up. When you have finished the exercise, simply click on "Save" in the "Arkiv" menu. These exercises are obligatory and should be handed in.

Exercise	
LoFOL 5.36-41	-

4 Deadlines

Each group/student should hand in his or her diskette and written solutions by

- Monday, March 22, 1999, at 10 am.

Recall that written solutions should be handed in individually.

We in turn will try to have the graded exercises back to you by

- Wednesday, March 24, 1999.

Exercises handed in after this date can <u>at best</u> get a grade of *Godkänd*, providing they are done correctly.