## CA208 Logic Lab 3

# Working with lists and recursion

#### Aim

The aims of this practical is:

- to become familiar with manipulating lists in Prolog, and
- to become familiar with recursion.

## 1. Develop your own list functions.

Prolog comes with a set of useful list functions. The goal of this exercise is to write your own version of standard list functions.

#### myElem(X,A)

This relation is true is X is an element of list A.

#### myHead(X,A)

This relation is true if X is the first element of list A.

#### myLast(X,A)

This relation is true if X is the last element of list A.

#### myTail(A,B)

This relation is true if list A is the tail of list B.

### myAppend(A,B,C)

This relation is true if list C is list B appended to the end of list A.

#### myReverse(A,B)

This relation is true if list A is the reverse of list B.

#### myDelete(X,A,B)

This relation is true if list B is list A with the first occurrence of X removed.