

CS302: Paradigms of Programming

Lab 6: Logic Paradigm

May 17th, 2022

Q1. Write a predicate `myLength(L,N)` capturing the condition that the list `L` contains `N` elements.

Q2. Write a predicate `myLast(X,L)` that captures the condition that `X` is the last element of the list `L`.

Q3. Determine if the following sets of Prolog terms are unifiable; if yes, also determine the resulting bindings.

- (i) `Bread = butter`
- (ii) `bread = butter`
- (iii) `food(bread,X) = food(Y,butter)`
- (iv) `food(bread,X,butter) = food(Y,cheese,X)`

Q4. Pick up the hostel puzzle from the class (question and solution both available in slides). Modify the puzzle to create at least one more that gives multiple different answers.