CSE 3622 Artificial Intelligence Sessional

Lab 4: Homework 4 (Prolog List)

1. The SEND MORE MONEY puzzle is a classic cryptarithmetic puzzle. The puzzle asks you to replace letters with numbers that makes this equation true: SEND + MORE = MONEY. Each letter stands for a single digit, 0 to 9, and different letters are different digits (so, for example, S and E can't be the same). Also, S and M can't be 0 because numbers don't start with 0.

2. Make a list unique [a,b,c,d,a,b,e,f] => [a,b,c,d,e,f]

3. Define a predicate occurrences(X,L,N) which holds if the element X occurs N times in the list L.

4. Solve Tower of Hanoi Problem using Prolog.