# **Assignment 15**

**Write a Prolog program to implement two predicates evenlength(List) and oddlength(List) so that they are true if their argument is a list of even or odd length respectively**

start:-write('Length of a list\n'),

write('Enter a list: '),

read(L),

(oddlength(L);

evenlength(L)).

oddlength(L):-length(L,N),N1 is mod(N,2),

(N1=:=0 -> write('The list not odd in length\n'),fail;

write('The list is Odd in length\n')).

evenlength(L):-length(L,N),N1 is mod(N,2),

(N1=:=0 -> write('The list even in length\n');

write('The list is not even in length\n')),fail.

**Output**

