# **Assignment 22**

**Write a program in PROLOG to implement delete\_all (X, L, R) where X denotes the element whose all occurrences has to be deleted from list L to obtain list R.**

start:-write('Deletion from list\n'),

write('Enter a list: '),

read(L),

write('Enter position: '),

read(N),

length(L,T),

check(N,T)->

delete\_nth(N,L,R),

write('List after deletion: '),

write(R);

write('Invalid Position'),fail.

delete\_nth(N,[],R).

delete\_nth(1,[H|T],T).

delete\_nth(N,[H|T],[H|R]):-N1 is N-1,delete\_nth(N1,T,R).

check(N,T):-N>=1,N=<T.

**Output**

