# **Assignment 19**

**Write a prolog program to implement insert\_nth(I, N, L, R) that inserts an item I into Nth position of list L to generate a list R.**

start:-write('Insertion at N\n'),

write('Enter a list: '),

read(L),

write('Insert element: '),

read(I),

write('Insert position: '),

read(N),

insert\_nth(I, N, L, R),

write('List after insertion: '),

write(R).

insert\_nth(I,N,[],[I]).

insert\_nth(I, 1, L, [I|L]).

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

insert\_nth(I, N, [], [I|R]).

**Output**

