Practical 7

Artificial Intelligence

EL3

19BCE248

AIM: Write a PROLOG program on lists.

1. Reversing a list.
2. Finding the position of given element in the list a) from beginning. b) from end.

Code:

reverse([ ],[ ]). reverse([X|LIST],ANS) :- reverse(LIST,TEMP), append(TEMP,[X],ANS).

indexof([X|LIST], Y, COUNT, ANS):- ( X==Y -> ANS is COUNT ; Z is COUNT+1, indexof(LIST, Y, Z, ANS) ).

lastindexof(LIST, Y, COUNT, ANS):- reverse(LIST, LST), indexof(LST, Y, COUNT, ANS).

Output:





