**Date**: 10/11/2021

Practical 7:

2CS702 – Artificial Intelligence

Name: Shrey Viradiya

Roll No: 18BCE259

Aim:

Write a PROLOG program on lists i. Reversing a list.

ii. Finding the position of given element in the list a) from beginning. b) from end.

**Code**

**reverse([],Z,Z).**

**reverse([H|T],Z,Acc) :- reverse(T,Z,[H|Acc]).**

**indexOf([Element|\_], Element, 0).**

**indexOf([\_|Tail], Element, Index):- indexOf(Tail, Element, Index1), Index is Index1+1.**

**indexOfend(List, Element, Index):- reverse(List, List2, []), indexOf(List2, Element, Index).**

Output:

