**Artificial Intelligence Practical**

Q1

/\*

Reverse of the list

reverse(?L, -R)

R is reverse of L.

\*/

reverse([], []).

reverse([H|L], R) :-

reverse(L,RevT),

append(RevT, [H], R).

Q2

/\*

list is palindrome or not

palindrome(?L)

L is palindrome or not

\*/

palindrome([]) :- !.

palindrome([\_]) :- !.

palindrome(L) :-

append([H|T], [H], L),

palindrome(T), !.

Q3

/\*

sum of the list.

sumlist(?L, -S)

S is sum(L).

\*/

sumlist([], 0).

sumlist([H|L], S) :-

sumlist(L, S2),

S is H + S2.

OUTPUT

