ARTIFICIAL INTELLIGENCE PRACTICAL FILE :-

SUBMITTED BY :-

NAME: ABHIJEET RANA

ROLL NUMBER: 2K18/CS/82

UNIVERSITY ROLL NUMBER : 18013570001

COURSE: B.SC (H) COMPUTER SCIENCE

UPC: 32341601

S/W LAB BASED ON ARTIFICIAL INTELLIGENCE

SEMESTER : 6TH

Q1-

Q14 → Write a Prolog program to implement a sumlist (L,S) so
that S is the sum of given list L ?

Ans → sumlist([ ],0).
sumlist ([H|T], S):-
sumlist (T, S1),
S is H+S1.

?- ['sumlist.pl'].
true.

?- sumlist([1,2,3,4,5,6,7,8,9,10],S).
S = 55.

?-

Q2 -

Q22→ Write a program in PROLOG to implement delete_all(X,L,R)
Where X denotes the element whose all occurrences have to
be deleted from List L to obtain List R?

ANS → delete_all(X,[],[]).
delete_all(X,[X|T],R):-
delete_all(X,T,R).
delete_all(X,[H|T],[H|R]):-
delete_all(X,T,R).

?- ['delall.pl'].

true.

?- delete_all(9,[1,9,2,9,3,9,4,9,5,9,6,9,7,9,8,9],R).
R = [1, 2, 3, 4, 5, 6, 7, 8] |