Artificial Intelligence Lab

Code: PMDS601P

Digital Assignment 2

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Course: M.Sc in Data Science

Write a Prolog program defining a predicate remove duplicates/2 which takes two parameters- the first parameter is a list, while the second parameter returns a list after removing all duplicate elements

Code:

remove_duplicates([],[]).

remove_duplicates([Head | Tail], [Head | Result]) :-

       \+ member(Head, Tail),

       remove_duplicates(Tail, Result).

remove_duplicates([Head | Tail], Result) :-

       member(Head, Tail),

       remove_duplicates(Tail, Result).

Output:

```
% c:/Users/sambh/OneDrive/Documents/Prolog/AIDA2.pl c
?- remove_duplicates([1,2,3,3,2,4,4,9,9], Result).
Result = [1, 3, 2, 4, 9]
```