BRAINWARE UNIVERSITY

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Stream : BCA

Section: A

Semester: 6th

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Subject : Artificial Intelligence Lab

Subject code:BCA691

Assignment : week 9

Prolog problems:-

1.)Write a prolog(swi) program to implement palindrome(list).

Code)

palin(List1):-

  findrev(List1,[],List2),

   compare(List1,List2).

findrev([],List1,List1).

findrev([X|Tail],List1,List2):-

  findrev(Tail,[X|List1],List2).

compare([],[]):-

  write("\nList is Palindrome").

compare([X|List1],[X|List2]):-

  compare(List1,List2).

compare([X|List1],[Y|List2]):-

  write("\nList is not Palindrome")

OUTPUT:

?- ['palindromelist.pl'].

true.

?- palindrome([m,a,d,a,m]).

true.

?- palindrome([m,a,d,a,k]).

false.