CSA-1704 AI FOR LLM

PROGRAM 33

% Check if a character is a vowel

vowel(a).

vowel(e).

vowel(i).

vowel(o).

vowel(u).

vowel(A) :- char\_type(A, upper), downcase\_atom(A, L), vowel(L). % For uppercase

% Count vowels in a list of characters

count\_vowels([], 0).

count\_vowels([H|T], Count) :-

vowel(H),

count\_vowels(T, TailCount),

Count is TailCount + 1.

count\_vowels([H|T], Count) :-

\+ vowel(H),

count\_vowels(T, Count).

% Main predicate to count vowels in a word

vowel\_count(Word, Count) :-

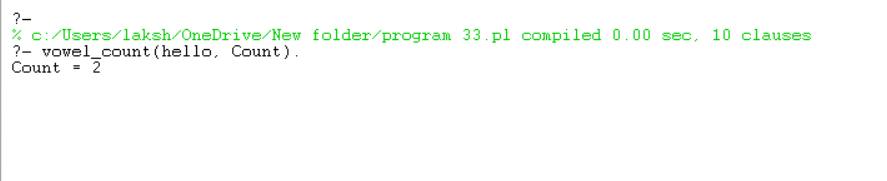
atom\_chars(Word, CharList),

count\_vowels(CharList, Count).

Queries:

?- vowel\_count(hello, Count).

Output:

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