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**EXP 31: Write a Prolog program to find the number of vowels**

**AIM:**

To Write a Prolog program to find the number of vowels.

**PROGRAM:**

% 31. Prolog Program to find the number of vowels

% Base case: empty list

count\_vowels([], 0).

% Head is a vowel

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

member(H,[a,e,i,o,u,A,E,I,O,U]),

count\_vowels(T, N1),

N is N1 + 1.

% Head is not a vowel

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

\+ member(H,[a,e,i,o,u,A,E,I,O,U]),

count\_vowels(T, N).

% Example Query:

% ?- count\_vowels([a,b,c,e,i], N).

**Query:**

?- count\_vowels([a,b,c,e,i], N).

OUTPUT:



**RESULT:**

Thus, the output is verified Prolog Program to find the number of vowels.