Code:

% sum\_to\_n(N, Sum) computes the sum of integers from 1 to N

% Base case

sum\_to\_n(0, 0).

% Recursive case

sum\_to\_n(N, Sum) :-

N > 0,

N1 is N - 1,

sum\_to\_n(N1, Sum1),

Sum is Sum1 + N.

Query:

sum\_to\_n(5, Sum).

