% Base case: the sum from 1 to 1 is 1

sum\_to\_n(1, 1).

% Recursive case: sum\_to\_n(N, Sum) :- Sum is N + sum\_to\_n(N-1)

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

N > 1,

N1 is N - 1,

sum\_to\_n(N1, Sum1),

Sum is Sum1 + N.

