**PRACTICAL-2**

**AIM:** Write a prolog program to implement the following.

a. Factorial of a given number

b. Fibonacci of a given number

**Source Code:**

% Factorial of a number

factorial(0, 1).

factorial(N, F) :-

N > 0,

N1 is N - 1,

factorial(N1, F1),

F is N \* F1.

% Fibonacci of a number

fibonacci(0, 0).

fibonacci(1, 1).

fibonacci(N, F) :-

N > 1,

N1 is N - 1,

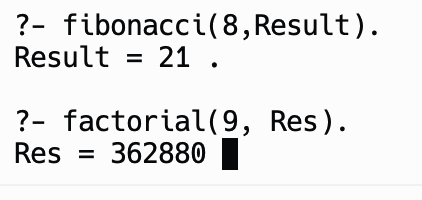
N2 is N - 2,

fibonacci(N1, F1),

fibonacci(N2, F2),

F is F1 + F2.

**Output:**

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