**Exp19: Write a Prolog Program for STUDENT-TEACHER-SUB CODE**.

**Input:**

% Prolog program for STUDENT - TEACHER - SUBJECT CODE

% Facts: student(Name, SubjectCode).

student('Alice', 'CS101').

student('Bob', 'CS102').

student('Charlie', 'CS101').

student('Diana', 'CS103').

student('Evan', 'CS102').

% Facts: teacher(Name, SubjectCode).

teacher('Prof. Smith', 'CS101').

teacher('Prof. Johnson', 'CS102').

teacher('Prof. Clark', 'CS103').

% Rule: Find teacher for a given student

teacher\_of\_student(Student, Teacher) :-

student(Student, SubCode),

teacher(Teacher, SubCode).

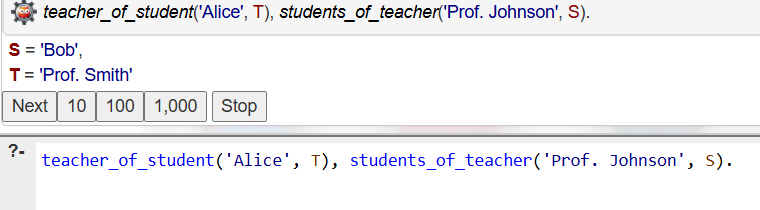
% Rule: Find students taught by a given teacher

students\_of\_teacher(Teacher, Student) :-

teacher(Teacher, SubCode),

student(Student, SubCode).

**Output:**

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