

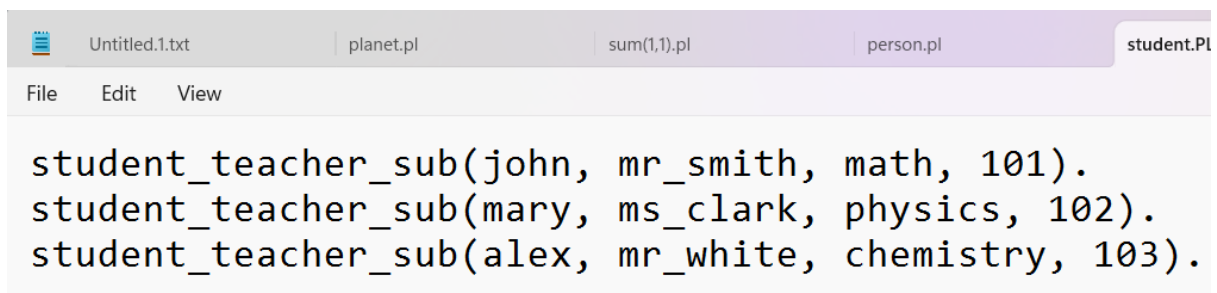
Write a Prolog Program for STUDENT-TEACHER-SUB-CODE.

AIM:

To write a Prolog program that stores and retrieves the relationship between student, teacher, subject, and subject code.


ALGORITHM:

1. Start the program.
2. Define facts in the form `student_teacher_sub(Student, Teacher, Subject, Code)`.
3. Load the program into Prolog.
4. Query using variables to retrieve required details.
5. Stop.

A screenshot of a Prolog IDE window. The title bar shows several open files: 'Untitled.1.txt', 'planet.pl', 'sum(1,1).pl', 'person.pl', and 'student.Pl'. The 'student.Pl' file is the active one. Below the title bar is a menu bar with 'File', 'Edit', and 'View'. The main text area contains three Prolog facts:

```
student_teacher_sub(john, mr_smith, math, 101).  
student_teacher_sub(mary, ms_clark, physics, 102).  
student_teacher_sub(alex, mr_white, chemistry, 103).
```

OUTPUT:

 SWI-Prolog (AMD64, Multi-threaded, version 9.2.9)
File Edit Settings Run Debug Help
% c:/Users/gayathri/Downloads/student.PL compiled 0.00 sec, 3 clauses
?- student_teacher_sub(Student, Teacher, Subject, Code).
Student = john,
Teacher = mr_smith,
Subject = math,
Code = 101 ;
Student = mary,
Teacher = ms_clark,
Subject = physics,
Code = 102 ;
Student = alex,
Teacher = mr_white,
Subject = chemistry,
Code = 103.

?- student_teacher_sub(mary, Teacher, Subject, Code).
Teacher = ms_clark,
Subject = physics,
Code = 102.

?- student_teacher_sub(Student, mr_white, Subject, Code).
Student = alex,
Subject = chemistry,
Code = 103.

?- ■

RESULT:

The program successfully stores and retrieves student-teacher-subject-code relationships from the knowledge base.