

## Program 19

### Student teacher subject code

**AIM :**

To implement a prolog program for student teacher subject code.

**PROGRAM :**

```
student('Alice', 123).
```

```
student('Bob', 456).
```

```
student('Charlie', 789).
```

```
teacher('Ms. Smith', 901).
```

```
teacher('Mr. Jones', 902).
```

```
teacher('Mr. Lee', 903).
```

```
subject('MATH101', 'Mathematics').
```

```
subject('CS202', 'Computer Science').
```

```
subject('ENG303', 'English Literature').
```

```
teaches(901, 'MATH101').
```

```
teaches(901, 'ENG303').
```

```
teaches(902, 'CS202').
```

```
teaches(903, 'MATH101').
```

```
enrolled(123, 'MATH101').
```

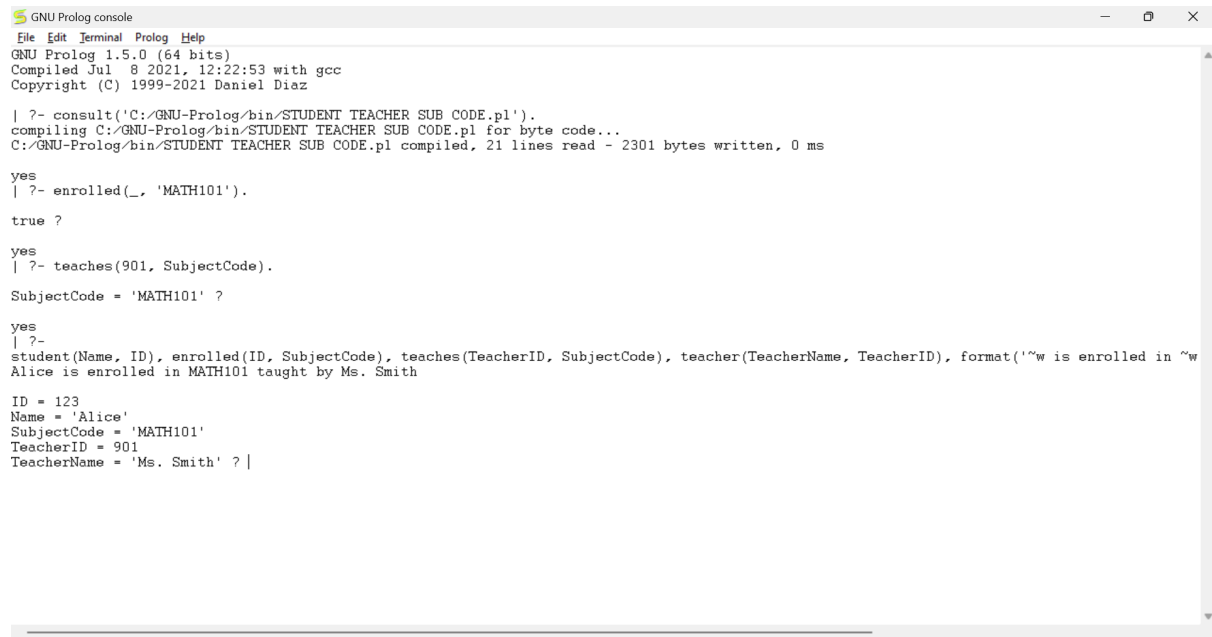
```
enrolled(123, 'CS202').
```

```
enrolled(456, 'MATH101').
```

```
enrolled(456, 'ENG303').
```

```
enrolled(789, 'CS202').
```

## OUTPUT:



```
GNU Prolog console
File Edit Terminal Prolog Help
GNU Prolog 1.5.0 (64 bits)
Compiled Jul  8 2021, 12:22:53 with gcc
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| ?- consult('C:/GNU-Prolog/bin/STUDENT TEACHER SUB CODE.pl').
compiling C:/GNU-Prolog/bin/STUDENT TEACHER SUB CODE.pl for byte code...
C:/GNU-Prolog/bin/STUDENT TEACHER SUB CODE.pl compiled, 21 lines read - 2301 bytes written, 0 ms

yes
| ?- enrolled(_, 'MATH101').

true ?

yes
| ?- teaches(901, SubjectCode).

SubjectCode = 'MATH101' ?

yes
| ?-
student(Name, ID), enrolled(ID, SubjectCode), teaches(TeacherID, SubjectCode), teacher(TeacherName, TeacherID), format('~w is enrolled in ~w
Alice is enrolled in MATH101 taught by Ms. Smith

ID = 123
Name = 'Alice'
SubjectCode = 'MATH101'
TeacherID = 901
TeacherName = 'Ms. Smith' ? |
```

## RESULT:

The Program has successfully been executed.