

EXPERIMENT:19 Write a Prolog Program for STUDENT-TEACHE R-SUB-CODE.

PROGRAM:

```
% student_teacher_sub_code(StudentName, TeacherName, SubjectCode).
```

```
student_teacher_sub_code('Alice', 'Mr. Smith', 'CS101').
```

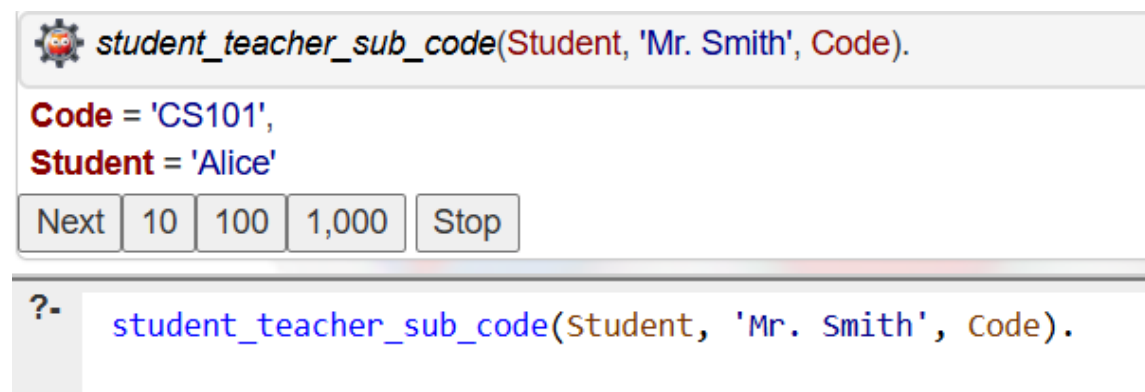
```
student_teacher_sub_code('Bob', 'Ms. Johnson', 'MA202').
```

```
student_teacher_sub_code('Charlie', 'Mr. Smith', 'CS101').
```

```
student_teacher_sub_code('Diana', 'Mr. Lee', 'PH303').
```

```
student_teacher_sub_code('Ethan', 'Ms. Johnson', 'MA202').
```

OUTPUT:



The screenshot shows a Prolog IDE interface. At the top, a query is entered: `student_teacher_sub_code(Student, 'Mr. Smith', Code).`. Below the query, the results are displayed: `Code = 'CS101',` and `Student = 'Alice'`. A control bar with buttons for 'Next', '10', '100', '1,000', and 'Stop' is visible. At the bottom, a prompt `?-` is followed by the query `student_teacher_sub_code(Student, 'Mr. Smith', Code).`.

```
student_teacher_sub_code(Student, 'Mr. Smith', Code).
```

```
Code = 'CS101',
```

```
Student = 'Alice'
```

Next 10 100 1,000 Stop

```
?- student_teacher_sub_code(Student, 'Mr. Smith', Code).
```

```
Accuracy: 1.0
|--- petal width (cm) <= 0.80
|   |--- class: 0
|--- petal width (cm) > 0.80
|   |--- petal length (cm) <= 4.75
|       |--- petal width (cm) <= 1.65
|           |--- class: 1
|           |--- petal width (cm) > 1.65
|               |--- class: 2
|       |--- petal length (cm) > 4.75
|           |--- petal width (cm) <= 1.75
|               |--- petal length (cm) <= 4.95
|                   |--- class: 1
|                   |--- petal length (cm) > 4.95
|                       |--- petal width (cm) <= 1.55
|                           |--- class: 2
|                           |--- petal width (cm) > 1.55
|                               |--- petal length (cm) <= 5.45
|                                   |--- class: 1
|                                   |--- petal length (cm) > 5.45
|                                       |--- class: 2
|           |--- petal width (cm) > 1.75
|               |--- petal length (cm) <= 4.85
|                   |--- sepal width (cm) <= 3.10
|                       |--- class: 2
|                       |--- sepal width (cm) > 3.10
|                           |--- class: 1
|               |--- petal length (cm) > 4.85
|                   |--- class: 2
```

...Program finished with exit code 0

Press ENTER to exit console.

