```
SOURCE CODE:
CREATE TABLE Students
( studentId INT AUTO_INCREMENT,
   stName VARCHAR(30) NOT NULL,
   email VARCHAR(40),
   gpa FLOAT DEFAULT 0.0,
   scholarship INT DEFAULT 0,
   PRIMARY KEY (studentId),
   CONSTRAINT CHECK GPA
   CHECK (gpa BETWEEN 0 AND 4.3)
);
DROP PROCEDURE AcceptStudent;
DELIMITER $$
   CREATE PROCEDURE AcceptStudent(
      studentName CHAR(30),
      emailAddress CHAR(30),
      highSchoolAvg FLOAT
   )
   BEGIN
      DECLARE scholarship INT;
      IF highSchoolAvg>100.0 OR highSchoolAvg<0.0 THEN
          SIGNAL SQLSTATE '45001'
             SET MESSAGE_TEXT = 'Mark out of range!';
      END IF;
      IF highSchoolAvg > 90.0 THEN
          SET scholarship = 1500;
      ELSEIF highSchoolAvg > 85.0 THEN
          SET scholarship = 1000;
      ELSE
          SET scholarship = 0;
      END IF;
      INSERT INTO Students(stName, email, scholarship) VALUE (studentName,
emailAddress,scholarship);
   END$$
DELIMITER;
-- tests
CALL AcceptStudent('yulong wang', '123@unb.ca', 80.0);
CALL AcceptStudent('MAX', '123@unb.ca', 88.0);
CALL AcceptStudent('CHRIS', '123@unb.ca', 95.0);
CALL AcceptStudent('XXX', '123@unb.ca', 120.0);
```

SELECT * FROM Students;

TEST RESULT:

```
MariaDB [ywang92]>
                    CREATE PROCEDURE AcceptStudent(
             studentName CHAR(30),
emailAddress CHAR(30),
   ->
->
             highSchoolAvg FLOAT
   ->
   ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^
          BEGIN
             DECLARE scholarship INT;
IF highSchoolAvg>100.0 OR highSchoolAvg<0.0 THEN
SIGNAL SQLSTATE '45001'
SET MESSAGE_TEXT = 'Mark out of range!';
             END IF;
             IF highSchoolAvg > 90.0 THEN
SET scholarship = 1500;
             ELSEIF highSchoolAvg > 85.0 THEN
                 SET scholarship = 1000;
                 SET scholarship = 0;
             END IF;
INSERT INTO Students(stName, email,scholarship) VALUE (studentName, emailAddress,scholarship);
   ->
   ->
          END$$
Query OK, 0 rows affected (0.00 sec)
MariaDB [ywang92]> DELIMITER ;
MariaDB [ywang92]> CALL AcceptStudent('yulong wang', '123@unb.ca', 80.0);
Query OK, 1 row affected (0.00 sec)
MariaDB [ywang92]> CALL AcceptStudent('MAX', '123@unb.ca', 88.0);
Query OK, 1 row affected (0.00 sec)
MariaDB [ywang92]> CALL AcceptStudent('CHRIS', '123@unb.ca', 95.0);
Query OK, 1 row affected (0.01 sec)
MariaDB [ywang92]> CALL AcceptStudent('XXX', '123@unb.ca', 120.0);
ERROR 1644 (45001): Mark out of range!
MariaDB [ywang92]> SELECT * FROM Students;
   studentId | stName
                                      email
                                                                 scholarship
                                                       gpa
                                      123@unb.ca
                                                            0
                                                                               0
             1
                   yulong wang
             2
                   MAX
                                      123@unb.ca
                                                            0
                                                                           1000
             3
                   CHRIS
                                      123@unb.ca
                                                            0
                                                                           1500
3 rows in set (0.01 sec)
```