```
-- Create Borrower table
CREATE TABLE Borrower (
    Roll_no INT PRIMARY KEY,
    Name VARCHAR(255),
    `Date of Issue` DATE,
    `Name of Book` VARCHAR(255),
    Status CHAR(1)
);
-- Create Fine table
CREATE TABLE Fine (
    Roll_no INT,
    Date DATE,
    Amt DECIMAL(10, 2)
);
-- Insert sample data into Borrower table
INSERT INTO Borrower (Roll_no, Name, `Date of Issue`, `Name of Book`, Status)
VALUES
    (1, 'John Doe', '2023-08-01', 'Book A', 'I'),
    (2, 'Jane Smith', '2023-08-15', 'Book B', 'I'),
    (3, 'Alice Johnson', '2023-08-20', 'Book C', 'I'),
    (4, 'Bob Brown', '2023-09-01', 'Book D', 'I');
DELIMITER //
CREATE PROCEDURE CalculateFine(
    IN p_Roll_no INT,
    IN p_BookName VARCHAR(255)
)
BEGIN
    DECLARE v_IssueDate DATE;
    DECLARE v_CurrentDate DATE;
    DECLARE v_FineAmt DECIMAL(10, 2);
    DECLARE v_DaysOverdue INT;
    -- Retrieve issue date and current date
    SELECT `Date of Issue` INTO v_IssueDate
    FROM Borrower
    WHERE Roll_no = p_Roll_no AND `Name of Book` = p_BookName;
    SET v_CurrentDate = CURDATE();
    -- Calculate the number of days overdue
    SET v_DaysOverdue = DATEDIFF(v_CurrentDate, v_IssueDate);
    -- Update status to 'R' (Returned)
    UPDATE Borrower
    SET Status = 'R'
    WHERE Roll_no = p_Roll_no AND `Name of Book` = p_BookName;
    -- Calculate fine amount based on the number of days overdue
    IF v_DaysOverdue BETWEEN 15 AND 30 THEN
        SET v_FineAmt = v_DaysOverdue * 5;
    ELSEIF v_DaysOverdue > 30 THEN
        SET v_FineAmt = v_DaysOverdue * 50;
        SET v_FineAmt = 0;
    END IF;
```

## **Before**

+		+		+-		٠.		<b>-</b> -	+	
Ì	Roll_no	ĺ	Name	ĺ	Date of Issue		Name of Book		Status	
	1 2 3 4	 	John Doe Jane Smith Alice Bob Brown	     	2023-08-01 2023-08-15 2023-08-20 2023-09-01		Book A Book B Book C Book D	     	I   I   I   I	
+		т.		т-		г-		г-	+	

## **After Procedure**

Roll_no	Name	+   Date of Issue +	Name of Book	Status
1   2   3   4	John Doe   Jane Smith   Alice   Bob Brown	2023-08-01 2023-08-15 2023-08-20	Book A Book B Book C Book D	R

## **After Procedure**

+-		+ -		+-		+-
-	Roll_no	-			Amt	
İ	1	İ	2023-09-13	İ	60.00	İ