ASSIGNMENT NO.3 : CONTROL STRUCTURE

```sql
CREATE TABLE borrower(
    roll_no       NUMBER(5),
    name          VARCHAR(30),
    date_of_issue  DATE,
    name_of_book   VARCHAR2(50),
    status        CHAR(1)
);

CREATE TABLE fine(
    roll_no  NUMBER(5),
    date    DATE,
    amt     NUMBER(10,2)
);

INSERT INTO borrower
VALUES(101,'Riya',DATE '2025-10-01','DBMS','I');

INSERT INTO borrower
VALUES(102,'Amit',DATE '2025-10-15','CN','I');

DROP PROCEDURE IF EXISTS return_book;

DELIMITER//

CREATE PROCEDURE return_book(IN p_roll INT, IN p_book VARCHAR(50))
BEGIN
```

```sql
DECLARE v_doi DATE;

DECLARE v_days INT;

DECLARE v_amt DECIMAL(10,2) DEFAULT 0;


SELECT date_of_issue INTO v_doi

FROM borrower

WHERE roll_no = p_roll AND name_of_book = p_book;


SET v_days = DATEDIFF(CURDATE(),v_doi);


UPDATE borrower

SET status='R'

WHERE roll_no = p_roll AND name_of_book = p_book;


IF v_days > 30 THEN

    SET v_amt = v_days * 50;

ELSEIF v_days >= 15 THEN

    SET v_amt = v_days * 5;

END IF;


IF v_amt > 0 THEN

    INSERT INTO fine(roll_no,date,amt)

    VALUES(p_roll,CURDATE(),v_amt);

END IF;


SELECT CONCAT('Book Returned. Days=',v_days,' Fine=',v_amt) AS Result;


END//
```

DELIMITER ;

TO RUN: CALL return_book(101,'DBMS');