**1. Simple Program – Show Publisher by ID**

DELIMITER $$

CREATE PROCEDURE ShowPublisherName(IN pub\_id INT)

BEGIN

DECLARE pub\_name VARCHAR(100);

SELECT name INTO pub\_name

FROM Publisher

WHERE Publisher\_Id = pub\_id;

SELECT CONCAT('Publisher Name: ', pub\_name) AS Result;

END $$

DELIMITER ;

CALL ShowPublisherName(1);

**✅ 2. Conditional Program – Check Book Price Range**

DELIMITER $$

CREATE PROCEDURE CheckBookPrice(IN isbn\_input VARCHAR(20))

BEGIN

DECLARE book\_price DECIMAL(10, 2);

SELECT Price INTO book\_price

FROM Books

WHERE ISBN = isbn\_input;

IF book\_price < 30 THEN

SELECT 'Budget Book' AS Category;

ELSEIF book\_price BETWEEN 30 AND 60 THEN

SELECT 'Mid-range Book' AS Category;

ELSE

SELECT 'Premium Book' AS Category;

END IF;

END $$

DELIMITER ;

CALL CheckBookPrice('978-1-23-456789-0');

**✅ 3. Loop Program – List All Reader Names with Loop**

DELIMITER $$

CREATE PROCEDURE ListReaderNames()

BEGIN

DECLARE done INT DEFAULT 0;

DECLARE fname VARCHAR(50);

DECLARE lname VARCHAR(50);

DECLARE cur CURSOR FOR SELECT Firstname, LastName FROM Readers;

DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;

OPEN cur;

read\_loop: LOOP

FETCH cur INTO fname, lname;

IF done THEN

LEAVE read\_loop;

END IF;

SELECT CONCAT('Reader: ', fname, ' ', lname) AS FullName;

END LOOP;

CLOSE cur;

END $$

DELIMITER ;

CALL ListReaderNames();