CREATE TABLE Stud\_Marks (

roll\_no INT PRIMARY KEY,

name VARCHAR(50),

total\_marks INT

);

INSERT INTO Stud\_Marks (roll\_no, name, total\_marks)

VALUES

(1, 'John Doe', 1000),

(2, 'Jane Smith', 950),

(3, 'Michael Johnson', 875),

(4, 'Emily Davis', 820),

(5, 'David Brown', 1200);

DELIMITER //

CREATE PROCEDURE proc\_Grade(IN roll INT, OUT Grade VARCHAR(50))

BEGIN

DECLARE studMarks INT;

-- Fetch total\_marks into the variable studMarks

SELECT total\_marks INTO studMarks FROM Stud\_Marks WHERE roll\_no = roll;

-- Determine grade based on the total marks

IF studMarks BETWEEN 990 AND 1500 THEN

SET Grade = 'Distinction';

ELSEIF studMarks BETWEEN 900 AND 989 THEN

SET Grade = 'FirstClass';

ELSEIF studMarks BETWEEN 835 AND 899 THEN

SET Grade = 'HigherSecondClass';

ELSE

SET Grade = 'LowerClass';

END IF;

END //

DELIMITER ;

DELIMITER //

CREATE FUNCTION func\_Grade(rollnumber INT)

RETURNS VARCHAR(50)

BEGIN

DECLARE Grade VARCHAR(50);

-- Call the procedure to get the grade

CALL proc\_Grade(rollnumber, @kunal);

-- Return the value stored in the variable @kunal

RETURN @kunal;

END //

DELIMITER ;

SELECT roll\_no, name, total\_marks, func\_Grade(roll\_no) AS Class

FROM Stud\_Marks;