Stored procedure and function

To create stored procedure

DELIMITER //

CREATE PROCEDURE emp()

BEGIN

  SELECT 'First stored procedure program';

END;
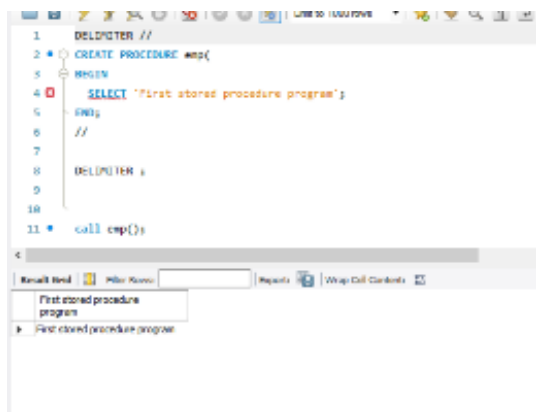
//

DELIMITER ;

o/p:-

create procedure create a procedure and delimiter is used in mysql to avoid confusion in mysql ; and to print statement in select we need to call the procedure by name

call emp();

stored procedure by parameter

```sql
DELIMITER //

CREATE PROCEDURE emps(IN str VARCHAR(100))
BEGIN
  SELECT CONCAT('welcome ', str) AS message;
END;
//

DELIMITER ;

call emps('sakshi');
```

here we have passed a parameter in string and we have called it by procedure name and parameter .

function :-

```sql
CREATE FUNCTION greet_user(name VARCHAR(100), age INT)
RETURNS VARCHAR(255)
DETERMINISTIC
BEGIN
  DECLARE message VARCHAR(255);
 IF age < 13 THEN
    SET message = CONCAT('Hello ', name, '! You are a child.');
```

```
    ELSEIF age BETWEEN 13 AND 19 THEN
      SET message = CONCAT('Hi ', name, '! You are a teenager.');
    ELSEIF age BETWEEN 20 AND 64 THEN
      SET message = CONCAT('Welcome ', name, '! You are an adult.');
    ELSE
      SET message = CONCAT('Greetings ', name, '! You are a senior citizen.');
    END IF;


    RETURN message;
END;
//
.DELIMITER ;
```

passing two values into this function when we call it.The function returns a single value a string up to 255 characters.

This string will be the final greeting message. Means that the function always gives the same output for the same inputs.

Required in MySQL to optimize certain queries using functions. Begins the function body.

Declares a local variable message to hold the greeting text

If age is less than 13, it sets message to say the user is a child