22. Write a recursive MySQL computing the factorial of a given number using high level programing Extension with **Functions.**

```
ANS:-
mysql>
mysql> DELIMITER ;
mysql> SELECT factorial(5);
ERROR 1424 (HY000): Recursive stored functions and triggers are not allowed.
mysql> DELIMITER //
mysql>
mysql> CREATE PROCEDURE factorial(IN n INT, OUT result INT)
    -> BEGIN
          DECLARE i INT DEFAULT 1;
           SET result = 1;
          WHILE i <= n DO
    ->
               SET result = result * i;
    ->
               SET i = i + 1;
    ->
           END WHILE;
    ->
    -> END//
Query OK, 0 rows affected (0.08 sec)
mysql>
mysql> DELIMITER ;
mysql> CALL factorial(5, @result);
Query OK, 0 rows affected (0.04 sec)
mysql> SELECT @result;
  @result
      120
 row in set (0.00 sec)
```