

NAME – RAJDEEP JAISWAL

DATE – 15 NOV 2021

BRANCH – BTECH CSE

SEC = 608 - A

UID -20BCS2761

Subject – DBMS Lab

1. Aim/Overview of the practical:

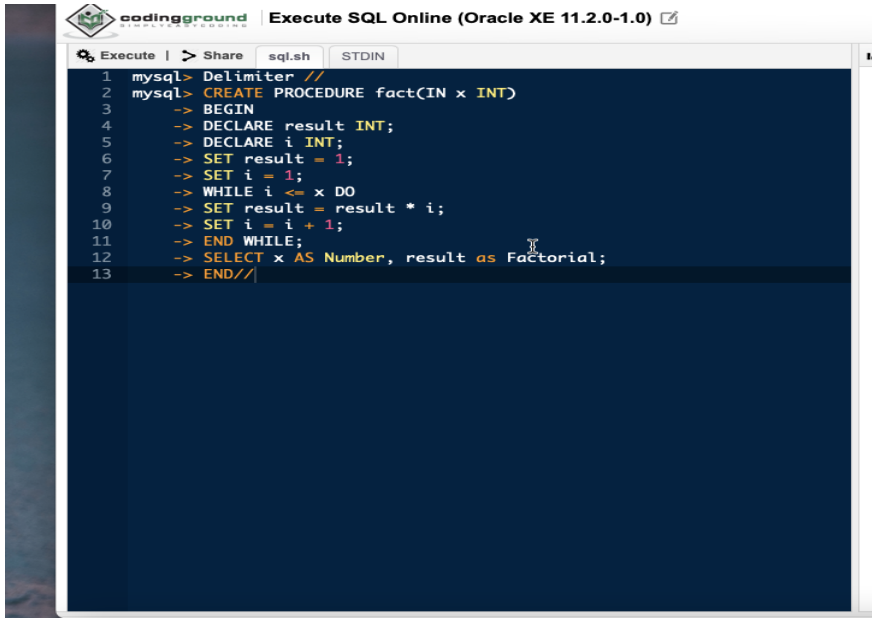
Write a procedure to calculate factorial of a number entered by user.

Solution -

Code in Text Form -

```
mysql> Delimiter //  
mysql> CREATE PROCEDURE fact(IN x INT)  
-> BEGIN  
-> DECLARE result INT;  
-> DECLARE i INT;  
-> SET result = 1;  
-> SET i = 1;  
-> WHILE i <= x DO  
-> SET result = result * i;  
-> SET i = i + 1;  
-> END WHILE;  
-> SELECT x AS Number, result as Factorial;  
-> END//
```

Code In Compiler –



The screenshot shows a web browser window titled "Execute SQL Online (Oracle XE 11.2.0-1.0)". The interface includes a "Execute" button, a "Share" button, and tabs for "sql.sh" and "STDIN". The SQL code entered is as follows:

```

1 mysql> Delimiter //
2 mysql> CREATE PROCEDURE fact(IN x INT)
3     -> BEGIN
4     -> DECLARE result INT;
5     -> DECLARE i INT;
6     -> SET result = 1;
7     -> SET i = 1;
8     -> WHILE i <= x DO
9     -> SET result = result * i;
10    -> SET i = i + 1;
11    -> END WHILE;
12    -> SELECT x AS Number, result as Factorial;
13    -> END//
  
```

OUTPUT –

factorial as an argument –

```

mysql> Delimiter ;
mysql> CALL Fact(5);
+-----+-----+
| Number | Factorial |
+-----+-----+
|      5 |        120 |
+-----+-----+
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

mysql> CALL Fact(6);
+-----+-----+
| Number | Factorial |
+-----+-----+
|      6 |        720 |
+-----+-----+
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)
  
```

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			