

Subject Code : CSA0540

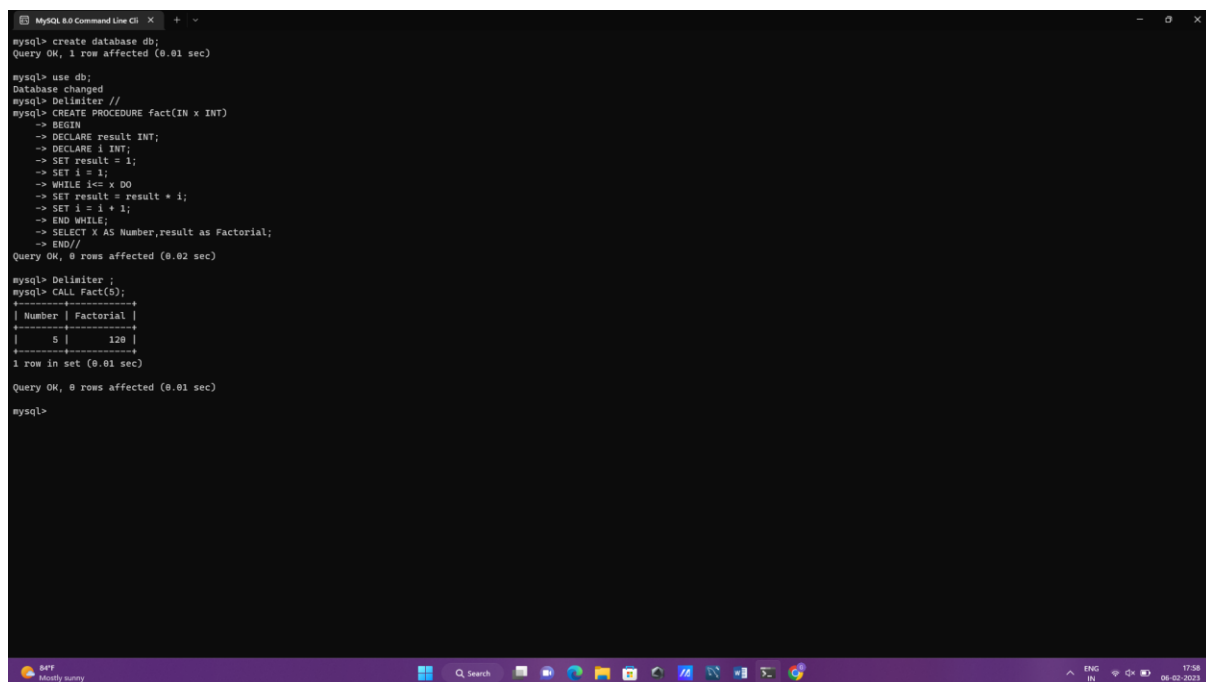
Subject Name: DBMS (Database for Mobile Systems)

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Ex.no = 23 Write a recursive MySQL computing the factorial of a given number using high level programming Extension with **Functions**.



```
mysql> create database db;
Query OK, 1 row affected (0.01 sec)

mysql> use db;
Database changed
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//
Query OK, 0 rows affected (0.02 sec)

mysql> Delimiter ;
mysql> CALL Fact(5);
+-----+-----+
| Number | Factorial |
+-----+-----+
|      5 |        120 |
+-----+-----+
1 row in set (0.01 sec)

Query OK, 0 rows affected (0.01 sec)

mysql>
```