```
mysql> DELIMITER //
mysql> CREATE FUNCTION CustomerLevel(p_CREDITLIMIT INT) RETURNS VARCHAR(10)
    -> DETERMINISTIC
    -> BEGIN
    -> DECLARE lvl VARCHAR(10);
   -> IF p_CREDITLIMIT > 50000 THEN
   -> SET lvl = 'PLATINUM';
   -> ELSEIF (p_CREDITLIMIT <= 50000 AND p_CREDITLIMIT >= 10000) THEN
   -> SET lvl = 'GOLD';
   -> ELSEIF p_CREDITLIMIT < 10000 THEN
   -> SET lvl = 'SILVER';
   -> END IF;
    -> RETURN (lvl);
   -> END
    -> //
Query OK, 0 rows affected (0.00 sec)
mysql> SELECT NAME,CustomerLevel(CREDITLIMIT)
    -> FROM CUSTOMER
    -> ORDER BY NAME
    -> //
ERROR 1054 (42522): Unknown column 'NAME' in 'field list'
mysql> SELECT CNAME, CustomerLevel(CREDITLIMIT)
    -> FROM CUSTOMER
    -> ORDER BY NAME
    -> //
ERROR 1054 (42522): Unknown column 'NAME' in 'order clause'
mysql> SELECT CNAME, CustomerLevel(CREDITLIMIT) FROM CUSTOMER ORDER BY CNAME//
| CNAME | CustomerLevel(CREDITLIMIT) |
          GOLD
DINESH
| NAGENDRA | PLATINUM
RAJA
           I GOLD
RAMU
          SILVER
4 rows in set (0.00 sec)
```

```
mysql> DELIMITER //
mysql> CREATE FUNCTION customerlevel(p_CREDITLIMIT INT)RETURNS VARCHAR(10)
    -> DETERMINISTIC
   -> BEGIN
    -> DECLARE [vl varchar(10);
    -> IF p_CREDITLINIT > 50880 THEN
    -> SET lvl='PLATINUM';
    -> ELSEIF(p_CREDITLIMIT <=50000 AND p_CREDITLIMIT>=10000)THEN
   -> SET lvl ='GOLD';
    -> ELSEIF b_CREDITLIMIT < 18880 THEN
    -> SET 1v1 ='SLIVER';
    -> END IF;
    -> RETURN (lv1);
    > END
    -> 11
Query OK, 0 rows affected (0.00 sec)
mysql> SELECT NAME,customerLevel(CREDITLIMIT)
    -> FROM CUSTOMER
    -> ORDER BY NAME //
```

Progarm:-2

```
mysql> DELIMITER S$
nysql> CREATE PROCEDURE find_fact(IN n INT)
    -> BEGIN
    SET @@GLOBAL.max_sp_recursion_depth=255;
       SET @@session.max_sp_recursion_depth=255;
    -> CALL factorial(n,@fact);
    SELECT @fact;
    -> END
    -> 55
Query OK, 8 rows affected (8.00 sec)
nysql> DELIMITER SS
nysql> CREATE PROCEDURE factortal(IN n INT,OUT fact INT)
    -> BEGIN
    -> IF n=1 THEN
           SET fact:=1:
    - 30
    -> ELSE
          CALL factorial(n-1, fact);
    m 3m
          SET fact:=n*fact:
    - 34
    1 (Sec.)
         END IF:
    -> END
    ·> 55
Query OK, 0 rows affected (0.01 sec)
mysql> CALL find fact(5);
    > 55
 @fact |
    128 I
1 row in set (0.00 sec)
Query OK, 0 rows affected (0.01 sec)
```