mysql> call calculateG("Shreyash",889);

```
Name: Saurav Muke
Roll No: 31342
Class : TE3
1.Procedure for Grade Calculation
        create procedure calculateG(in sname varchar(20),in marks int(5))
       insert into Stud Marks values(sname, marks);
       if marks<0 then
       signal sqlstate '45000' set message_text="Error";
        if marks<=1500 and marks>=990 then
       update Result set Class="Distinction" where Name=sname;
       elseif marks<=989 and marks>=900 then
       update Result set Class="First Class" where Name=sname;
       elseif marks<=899 and marks>=825 then
       update Result set Class="Higher Second" where Name=sname;
       end if;
       select concat("Done Successfully");
       end;
2. Function for Grade Calculation
       create function funcalcula(sname varchar(20), marks int(5)) returns CHAR(50)
DETERMINISTIC
       begin
       declare d varchar(50);
       insert into Stud Marks values(sname, marks);
       if marks<0 then
       signal sqlstate '45000' set message text="Error";
       if marks<=1500 and marks>=990 then
        update Result set Class="Distinction" where Name=sname;
       elseif marks<=989 and marks>=900 then
       update Result set Class="First Class" where Name=sname;
       elseif marks<=899 and marks>=825 then
       update Result set Class="Higher Second" where Name=sname;
       end if;
       select Class into d from Result where Name=sname;
        return d;
       end;
Output: -
mysql> select * from Result;
+----+
| Roll | name | Class |
+-----
    3 | Sam |
    1 | Saurav
   2 | Shreyash |
3 rows in set (0.00 \text{ sec})
mysql> call calculateG("Saurav",1499);
| concat("Done Successfully") |
+----+
| Done Successfully
1 row in set (0.14 sec)
Query OK, 0 rows affected (0.14 sec)
```

```
| concat("Done Successfully") |
+----+
| Done Successfully |
+----+
1 row in set (0.01 sec)
Query OK, 0 rows affected (0.01 sec)
mysql> select * from Result;
+----+
| Roll | name | Class
+----+
2 | Shreyash | Higher Second |
3 rows in set (0.00 \text{ sec})
mysql> select funcalcula("Sam" ,900);
| funcalcula("Sam" ,900) |
+----+
| First Class |
+----+
1 row in set (0.01 sec)
mysql> select * from Result;
+----+
| Roll | name | Class |
+----+
3 | Sam | First Class |
1 | Saurav | Distinction |
2 | Shreyash | Higher Second |
+----+
3 rows in set (0.00 sec)
```

mysql>