

ASSIGNMENT NO:5

Write a PL/SQL code block to calculate the area of a circle for a value of radius varying from 5 to 9. Store the radius and the corresponding values of calculated area in an empty table named areas, consisting of two columns, radius and area.

```
gescoe@gescoe-OptiPlex-3010:~$ mysql -h 192.168.2.232 -u TEB41 -p
```

Enter password:

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MySQL connection id is 11

Server version: 5.6.41 MySQL Community Server (GPL)

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
MySQL [(none)]> create database pranjai;
```

Query OK, 1 row affected (0.001 sec)

```
MySQL [(none)]> use pranjai;
```

Database changed

```
MySQL [pranjai]> create table tbl_area(radius int,area float);
```

Query OK, 0 rows affected (0.351 sec)

```
MySQL [pranjai]>
```

```
MySQL [pranjai]> delimiter //
```

```
MySQL [pranjai]>
```

```
MySQL [pranjai]> create procedure Find_Circle_Area()
```

```
    -> BEGIN
```

```
    -> declare r int;
```

```
    -> declare a float;
```

```
    ->
```

```
    -> set r = 5;
```

```
    ->     loop_label: LOOP
```

```
    ->     IF r > 9 THEN
```

```
    ->         LEAVE loop_label;
```

```
    ->     END IF;
```

```
    ->
```

```
    ->     set a = 3.14 * r * r;
```

```
    ->     insert into tbl_area(radius,area) values(r,a);
```

```
    ->
```

```
    ->     select a as Area;
```

```
    ->
```

```

->     set r = r + 1;
->
->     END LOOP;
->
-> END;
->
-> //

```

Query OK, 0 rows affected (0.001 sec)

MySQL [pranjal]>

MySQL [pranjal]> delimiter ;

MySQL [pranjal]> call Find_Circle_Area();

```
+-----+
```

```
| Area |
```

```
+-----+
```

```
| 78.5 |
```

```
+-----+
```

1 row in set (0.052 sec)

```
+-----+
```

```
| Area |
```

```
+-----+
```

```
| 113.04 |
```

```
+-----+
```

1 row in set (0.094 sec)

```
+-----+
```

```
| Area |
```

```
+-----+
```

```
| 153.86 |
```

```
+-----+
```

1 row in set (0.219 sec)

```
+-----+
```

```
| Area |
```

```
+-----+
```

```
| 200.96 |
```

```
+-----+
```

1 row in set (0.261 sec)

+-----+

| Area |

+-----+

| 254.34 |

+-----+

1 row in set (0.303 sec)

Query OK, 0 rows affected (0.303 sec)