Zeal College of Engineering and Research

Subject: DBMSL

Name: Jenil Girish Rathod   Class: TE

Div: B   Batch: B1

Roll No: T212009

Group A: Practical No: 5

Program Statement:

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.

Code:

```
mysql> use calculation;
Database changed

mysql> CREATE TABLE areas(r INT, area FLOAT(10,2));
Query OK, 0 rows affected, 1 warning (0.02 sec)

mysql> DELIMITER //
mysql> CREATE PROCEDURE proc_area()
  -> BEGIN
  -> DECLARE r INT(10);
  -> DECLARE area FLOAT(10, 2);
  -> DECLARE pi FLOAT(10, 2);
  -> set pi = 3.14;
  -> set r = 5;
  -> l1
  -> :
  -> while r <= 9 do
  -> SET area = pi * POWER(r, 2);
  -> INSERT INTO areas VALUES(r, area);
  -> SET r = r + 1;
  -> END
  -> while l1;
  -> END
  -> //
Query OK, 0 rows affected, 3 warnings (0.00 sec)

mysql> DELIMITER ;
mysql> CALL proc_area();
Query OK, 1 row affected (0.01 sec)
```

```
mysql> SELECT * FROM areas;
+------+--------+
| r    | area   |
+------+--------+
|    5 |  78.50 |
|    6 | 113.04 |
|    7 | 153.86 |
|    8 | 200.96 |
|    9 | 254.34 |
+------+--------+
5 rows in set (0.00 sec)
```