ASSIGNMENT NO – 04

Title: 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.

```
CREATE TABLE areas (
     radius NUMBER,
3
     area NUMBER
4);
Table created.
STEP - 2: PL/SQL Code Block
SQL>
 1 DECLARE
     v radius NUMBER;
 3
     v area NUMBER;
     BEGIN
 4
 5
 6
     FOR v radius IN 5..9 LOOP
 7
       -- Calculate the area of the circle
       v_area := 3.14159 * v_radius * v radius;
 8
 9
10
        -- Insert the radius and area into the areas table
11
        INSERT INTO areas (radius, area)
12
        VALUES (v radius, v area);
13
     END LOOP;
```

STEP – 1: Create Table areas to store area of circle

PL/SQL procedure successfully completed.

-- Commit the transaction

COMMIT;

OUTPUT:

17 END; 18 /

14 15

16

SQL> SELECT *FROM areas;

RADIUS	AREA
5	78.53975
6	113.09724
7	153.93791
8	201.06176
9	254.46879