Practical-12

Date: _____

AIM: Write a PL/SQL block to calculate the area of a circle for values of radius varying from 3 to 7. Store the radius and the corresponding values of calculated area in an empty table named Areas, consisting of two columns Radius and Area.

Input :-

i). CREATE TABLE Areas :-

```
CREATE TABLE Areas (
        Radius NUMBER,
        Area NUMBER
);
```

ii). PL/SQL Block :-

```
DECLARE
    r NUMBER(5);
    area NUMBER(14,2);
    pi CONSTANT NUMBER(4,2) := 3.14;
BEGIN
    r := 3;
    WHILE r<=7 LOOP
        area := pi * POWER(r,2);
        INSERT INTO areas VALUES (r, area);
        dbms_output.put_line ('Radius :' || r || ',
                                Area :' || area);
        r := r + 1;
 END LOOP;
END;
```

Output :-

```
Radius : 3, Area : 28.26
Radius : 4, Area : 50.24
Radius : 5, Area : 78.50
```

Radius	Area
3	28.26
4	50.24
5	78.50