ASSIGNMENT 9

1. Wap to find area of circle in PLSQL.

```
DECLARE
    r DECIMAL(5,2);
    a DECIMAL(10,2);

BEGIN
    r := &r;
    a := 3.14*r*r;
    DBMS_OUTPUT.PUT_LINE('Area of circle: ' || a);

END;
/
```

OUTPUT

```
SQL> SET SERVEROUTPUT ON;
SQL> EDIT C:\dbmsLab\lab9\q1.sql

SQL> @C:\dbmsLab\lab9\q1.sql

Enter value for r: 4
old 5: r:= &r;
new 5: r:= 4;
Area of circle: 50.24

PL/SQL procedure successfully completed.
```

2. Wap to check no is odd or even PLSQL.

```
SQL> EDIT C:\dbmsLab\lab9\q2.sql

SQL> @C:\dbmsLab\lab9\q2.sql
Enter value for n: 54327
old 4: n:= &n;
new 4: n:= 54327;
ODD

PL/SQL procedure successfully completed.
```

3. Wap to check greatest no among three No. In PLSQL.

```
DECLARE
     a NUMBER(5);
     b NUMBER(5);
      c NUMBER(5);
BEGIN
     a := &a;
     b := &b;
     c := &c;
      IF (a > b) AND (a > c) THEN
            DBMS_OUTPUT.PUT_LINE(a||' is greatest');
      ELSIF (b > a) AND (b > c) THEN
            DBMS_OUTPUT.PUT_LINE(b||' is greatest');
      ELSIF (c > a) AND (c > b) THEN
            DBMS_OUTPUT.PUT_LINE(c||' is greatest');
      END IF;
END;
```

OUTPUT

```
SQL> @C:\dbmsLab\lab9\q3.sql
Enter value for a: 20
old
     6:
               a := &a;
               a := 20;
new
     6:
Enter value for b: 30
old
     7:
               b := \&b;
new
      7:
               b := 30;
Enter value for c: 10
old
     8:
               c := &c;
      8:
                c := 10;
new
30 is greatest
PL/SQL procedure successfully completed.
```

4. Wap to enter character and check it is vowel or consonant in PLSQL.

OUTPUT

```
SQL> EDIT C:\dbmsLab\lab9\q4.sql
SQL> @C:\dbmsLab\lab9\q4.sql
Enter value for ch: O
                ch := '&ch';
old
                ch := '0';
new
     4:
O is a vowel
PL/SQL procedure successfully completed.
SQL> @C:\dbmsLab\lab9\q4.sql
Enter value for ch: h
old
    4:
                ch := '&ch';
                ch := 'h';
new
    4:
h is a consonant
PL/SQL procedure successfully completed.
```

5. Wap to find the multiplication table in PL/SQL.

```
SQL> EDIT C:\dbmsLab\lab9\q5.sql
SQL> @C:\dbmsLab\lab9\q5.sql
Enter value for n: 13
old
     5:
                  n := &n;
      5:
                  n := 13;
new
13 \times 1 = 13
13 \times 2 = 26
13 \times 3 = 39
13 \times 4 = 52
13 \times 5 = 65
13 \times 6 = 78
13 \times 7 = 91
13 \times 8 = 104
13 \times 9 = 117
13 \times 10 = 130
PL/SQL procedure successfully completed.
```

6. Wap to check no is Armstrong no or not in PLSQL.

```
DECLARE
      N NUMBER;
      s NUMBER:= 0;
      len NUMBER;
      r NUMBER;
      temp NUMBER;
BEGIN
      N:=&N;
      temp:= N;
      len := length(to_char(n));
      WHILE N > 0
      LOOP
            r := MOD(N,10);
s := s + power(r, len);
            N := trunc(N/10);
      END LOOP;
      IF (s=temp) THEN
             DBMS_OUTPUT.PUT_LINE('ARMSTRONG NO.');
      ELSE
            DBMS_OUTPUT.PUT_LINE('NOT AN ARMSTRONG NO.');
      END IF;
END;
1
```

OUTPUT

```
SQL> @C:\dbmsLab\lab9\q6.sql
Enter value for n: 153
old
    8:
               N:=&N;
new
     8:
               N:=153;
ARMSTRONG NO.
PL/SQL procedure successfully completed.
SQL> @C:\dbmsLab\lab9\q6.sql
Enter value for n: 325
old
     8:
               N:=&N;
new
     8:
               N:=325;
NOT AN ARMSTRONG NO.
PL/SQL procedure successfully completed.
```