



# KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

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## **DBMS LAB ASSIGNMENT 8**

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Roll No:- **21051449**

Sec:- **CSE-19**

**1. Write a PLSQL program to display a greeting text using.**

```
begin
dbms_output.put_line('Welcome to the world of database! here we are writing
a PLSQL code for greeting you ');
end;
```

```
SQL> @greeting.txt
4 /
Welcome to the world of database! here we are writing a PLSQL code for greeting
you

PL/SQL procedure successfully completed.
```

**2. Write a PLSQL program to display sum and avg of 3 numbers.**

```
DECLARE
a INT := &a;
b INT := &b;
c INT := &c;
sum1 INT;
avg1 NUMBER(12,3);
BEGIN
sum1 := a + b + c;
avg1 := sum1 / 3;
dbms_output.put_line('Sum of a, b and c is = ' || sum1);
```

```

    dbms_output.put_line('Avg of a, b and c is = ' || avg1);
END;
/

```

```

SQL> @sum_avg.txt
Enter value for a: 4
old 2: a INT := &a;
new 2: a INT := 4;
Enter value for b: 7
old 3: b INT := &b;
new 3: b INT := 7;
Enter value for c: 3
old 4: c INT := &c;
new 4: c INT := 3;
Sum of a, b and c is = 14
Avg of a, b and c is = 4.667

PL/SQL procedure successfully completed.

```

### 3. Write a PLSQL program to display simple interest with required input.

```

declare
p int := &p;
r int := &r;
t int := &t;
si number;
begin
si:= (p*r*t)/100;
dbms_output.put_line('Simple intrest= ' || si);
end;

```

```

SQL> @si.txt
10 /
Enter value for p: 12000
old 2: p int := &p;
new 2: p int := 12000;
Enter value for r: 4
old 3: r int := &r;
new 3: r int := 4;
Enter value for t: 6
old 4: t int := &t;
new 4: t int := 6;
Simple intrest= 2880

```

### 4. Write a PLSQL program to display area of circle by accepting radius.

```

declare
r int := 6;
area decimal(12,3);
begin
area := (22/7)*r*r;
dbms_output.put_line('Area of circle = ' || area);
end;
/

```

```

SQL> @circle.txt
Area of circle = 113.143

PL/SQL procedure successfully completed.

```

**5. Write a PLSQL program to accept two strings and swap.**

```

declare
str1 varchar2(20) := '&str1';
str2 varchar2(20) := '&str2';
temp varchar2(20);
begin
dbms_output.put_line('Strings Before Swap');
dbms_output.put_line('String 1 :- ' || str1);
dbms_output.put_line('String 2 :- ' || str2);
temp := str1;
str1 := str2;
str2 := temp;
dbms_output.put_line('Strings After Swap');
dbms_output.put_line('String 1 :- ' || str1);
dbms_output.put_line('String 2 :- ' || str2);
end;
/

```

```

SQL> @STRING_SWAP.TXT
Enter value for str1: First
old   2: str1 varchar2(20) := '&str1';
new   2: str1 varchar2(20) := 'First';
Enter value for str2: Second
old   3: str2 varchar2(20) := '&str2';
new   3: str2 varchar2(20) := 'Second';
Strings Before Swap
String 1 :- First
String 2 :- Second
Strings After Swap
String 1 :- Second
String 2 :- First

PL/SQL procedure successfully completed.

```

**6. Write a PLSQL program to display greatest among 2 numbers.**

```

declare
a int:=&a;
b int:=&b;
begin
if(a>b)
then
dbms_output.put_line('a is max');
else
dbms_output.put_line('b is max');
end if;
end;

```

```

SQL> @max_two.txt
12 /
Enter value for a: 34
old   2: a int:=&a;
new   2: a int:=34;
Enter value for b: 98
old   3: b int:=&b;
new   3: b int:=98;
b is max

PL/SQL procedure successfully completed.

```

**7. Write a PLSQL program to check a number is even or odd.**

```

declare
n int := &n;
begin
if((n)mod(2)=0)
then
dbms_output.put_line('Entered no is Even.');
```

```

else
dbms_output.put_line('Entered no is Odd.');
```

```

end if;
```

```

end;
```

```

/
```

```

SQL> @even_odd.txt
Enter value for n: 787
old 2: n int := &n;
new 2: n int := 787;
Entered no is Odd.

PL/SQL procedure successfully completed.
```

**8. Write a PLSQL program to check a number is single/two/three or more than three digit number.**

```

DECLARE
```

```

  n NUMBER := &n;
```

```

BEGIN
```

```

  IF n < 10 THEN
```

```

    DBMS_OUTPUT.PUT_LINE('The number is a single digit number.');
```

```

  ELSIF n < 100 THEN
```

```

    DBMS_OUTPUT.PUT_LINE('The number is a two digit number.');
```

```

  ELSIF n < 1000 THEN
```

```

    DBMS_OUTPUT.PUT_LINE('The number is a three digit number.');
```

```

  ELSE
```

```

    DBMS_OUTPUT.PUT_LINE('The number is more than three digit number.');
```

```

  END IF;
```

```

END;
```

```

/
```

```

SQL> @1_2_3_digit.txt
Enter value for n: 245
old 2:  n NUMBER := &n;
new 2:  n NUMBER := 245;
The number is a three digit number.

PL/SQL procedure successfully completed.

```

**9. Execute any sql query/command through PLSQL program.**

```

DECLARE
    query_str VARCHAR2(200) := 'SELECT COUNT(*) FROM employees';
    result NUMBER;
BEGIN
    EXECUTE IMMEDIATE query_str INTO result;
    DBMS_OUTPUT.PUT_LINE('Total number of employees: ' || result);
END;
/

```

```

SQL> @sql.txt
Total number of employees: 2

PL/SQL procedure successfully completed.

```

**10. Write a PLSQL program to display a series of numbers upto n.**

```

DECLARE
    n NUMBER := &n;
BEGIN
    FOR i IN 1..n LOOP
        DBMS_OUTPUT.PUT_LINE(i || ' ');
    END LOOP;
END;
/

```

```
SQL> @series.txt
Enter value for n: 8
old   2:   n NUMBER := &n;
new   2:   n NUMBER := 8;
1
2
3
4
5
6
7
8

PL/SQL procedure successfully completed.
```