EXPERIMENT-8

Aim: To Practice PL/SQL Command. **Software Used: MySQL** Code: BASICS: Syntax, Comments, Variable Attributes, Conditionals: IF-THEN-ELSE, CASE, LOOPS-For, While. **Syntax: DECLARE** message varchar2(20):= 'Hello, World!'; **BEGIN** dbms_output.put_line(message); END; Hello World! PL/SQL procedure successfully completed. **Comments: DECLARE** -- variable declaration message varchar2(20):= 'Hello, World!'; **BEGIN** /* * PL/SQL executable statement(s) */ dbms output.put line(message); END; Hello World! PL/SQL procedure successfully completed.

Example:

END;

```
DECLARE
a integer := 30;
b integer := 40;
c integer;
f real;
BEGIN
c := a + b;
dbms_output_line('Value of c: ' || c);
f := 100.0/3.0;
dbms_output_line('Value of f: ' || f);
END;
Value of c:70
Value of f:33.33333333333333333
PL/SQL procedure successfully completed.
Variable Attributes:
<u>% TYPE</u>
DECLARE
SALARY EMP.SAL % TYPE;
ECODE EMP.empno % TYPE;
BEGIN
Ecode :=&Ecode;
Select SAL into SALARY from EMP where EMPNO = ECODE;
```

dbms output.put line('Salary of' || ECODE || 'is = || salary');

```
Enter value for ecode:7499
Salary of 7499 is=1600
```

PL/SQL procedure successfully completed.

%ROWTYPE

```
DECLARE

EMPLOYEE EMP. % ROW TYPE;

BEGIN

EMPLOYEE.EMPNO := 2092;

5 EMPLOYEE.ENAME := 'Sanju';

Insert into EMP where (EMPNO, ENAME) Values (employee.empno, employee.ename);

dbms_output.put_line('Row Inserted');

END;
```

Row Inserted

PL/SQL procedure successfully completed.

Conditionals

```
1) IF -THEN-ELSE

DECLARE

a number(3) := 500;

BEGIN

-- check the boolean condition using if statement

IF( a < 20 ) THEN

-- if condition is true then print the following

dbms_output.put_line('a is less than 20 ' );

ELSE

dbms_output.put_line('a is not less than 20 ');

END IF;

dbms_output.put_line('value of a is : ' || a);

END;
```

```
a is not less than 20
value of a is:500
PL/SQL procedure successfully completed.
```

```
2) <u>CASE</u>
DECLARE
grade char(1) := 'A';
BEGIN
CASE grade
when 'A' then dbms_output.put_line('Excellent');
when 'B' then dbms output.put line('Very good');
when 'C' then dbms output.put line('Good');
when 'D' then dbms output.put line('Average');
when 'F' then dbms output.put line('Passed with Grace');
else dbms output.put line('Failed');
END CASE;
END;
Excellent
PL/SQL procedure successfully completed.
Loop:
1) FOR
DECLARE
VAR1 NUMBER;
BEGIN
VAR1:=10;
FOR VAR2 IN 1..10
LOOP
DBMS_OUTPUT_LINE (VAR1*VAR2);
END LOOP;
END;
```

```
10
20
30
40
50
60
70
80
90
100
PL/SQL procedure successfully completed.
2) WHILE
DECLARE
VAR1 NUMBER;
VAR2 NUMBER;
BEGIN
VAR1:=200;
VAR2:=1;
WHILE (VAR2<=10)
LOOP
DBMS_OUTPUT.PUT_LINE (VAR1*VAR2);
VAR2:=VAR2+1;
END LOOP;
END;
200
400
600
800
1000
1200
1400
1600
1800
2000
PL/SQL procedure successfully completed.
```

Conclusion: Various forms of PL/SQL queries were demonstrated.