Experiment:6

❖ Develop a program that includes the features NESTED IF, CASE and CASE expression. The program can be extended using the NULLIF and COALESCE functions.

A. NESTED IF:

A nested if-then is an if statement that is the target of another if statement. Nested if-then statements mean an if statement inside another if statement

```
Syntax:-
if (condition1) then
-- Executes when condition1 is true if (condition2) then
-- Executes when condition2 is true end if;
end if;
```

PL/SQL CODE:

PL/SQL Program to find biggest of three number using nested if. SQL>ed 6a

Enter the following code into the text editor and save the file with .sql format

```
end if;
end;
SQL> @6a;
a=10 b=12 c=5
b is greatest
PL/SQL procedure successfully completed.
B. CASE and CASE Expression: CASE statement selects one sequence of statements to
execute. However, to select the sequence, the CASE statement uses a selector rather than
multiple Boolean expressions. A selector is an expression, the value of which is used to
select one of several alternatives. Syntax
CASE selector
WHEN 'value1' THEN S1;
WHEN 'value2' THEN S2;
WHEN 'value3' THEN S3;
ELSE Sn;
-- default case END CASE;
SQL> create table emp(eno number(5), ename varchar2(10), loc varchar(10), salary
number(10,2));
Table created.
SQL> insert into emp values(101, 'ali', 'vja', 15000);
1 row created.
SQL> insert into emp values(102, 'ravi', 'hyd', 25000);
1 row created.
SQL> insert into emp values(103, 'raju', 'gnt', 35000);
1 row created.
SQL> insert into emp values(104, 'rakesh', 'vja', 45000);
```

1 row created.

SQL> select *from emp;

```
ENO ENAME LOC
                  SALARY
101
     ali
           vja
                  15000
102
     ravi
           hyd
                  25000
103
                  35000
     raju
           gnt
104
     rakesh vja
                  45000
```

Example of CASE Expression:

SQL> select loc, case(loc) when 'vja' then salary+2000 when 'hyd' then salary+1000 else salary end "rev_salary" from emp;

```
LOC rev_salary
vja 17000
hyd 26000
gnt 35000
vja 47000
```

PL/SQL CODE:

PL/SQL CODE to demonstrate CASE

SQL> ed 6b;

```
set serveroutput on;

declare

grade char(1);

begin

grade:='&grade';

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('fair');
when 'f' then
dbms_output.put_line('poor');
else
dbms_output.put_line('No such grade');
end case;
end;
SQL> @6b;
Enter value for grade: c
old 4: grade:='&grade';
new 4: grade:='c';
good
PL/SQL procedure successfully completed.
SQL> @6b;
Enter value for grade: g
old 4: grade:='&grade';
new 4: grade:='g';
No such grade
PL/SQL procedure successfully completed.
C. NULLIF: Takes two arguments. If the two arguments are equal, then NULL is returned.
otherwise the first argument is returned.
Syntax: select column_name, NULLIF(argument1, arguement2) from table_name;
```

Example:	
SQL> select ename, nullif('ali','ali1') from emp;	
ENAME	NULLIF
ali	ali
ravi	ali
raju	ali
rakesh	ali
SQL> select ename, nullif('ali','ali') from emp;	
ENAME	NULLIF
ali	
ravi	
raju	
rakesh	
<u>D. COALESCE:</u> COALESCE () function accepts a list of arguments and returns the first one that	
evaluates to a non-null value.	
Syntax: coalesce("expression1","expression2",);	
Example:	
SQL> select coalesce(NULL,'CRRCOE','IT') from dual;	
COALESCE(NULL,'CRRCOE','IT')	
CDDCOE	
CRRCOE	