GITAM SCHOOL OF SCIENCES (GSS)

GITAM (Deemed to be University), Bengaluru Campus – 562163
DEPARTMENT OF COMPUTER SCIENCE

Program : B.C.A   **Semester : IV**

Course Code : CSCI2071   **Course Title : DBMS Lab**

Course Faculty : Dr. Rajesh L

Experiment 5 a : To demonstrate PL SQL program to implement addition of two numbers :

Before execution of this program unit at the SQL prompt ensure "set serveroutput on".
Type in the script as shown below:

```
declare
x number(5);
y number(5);
z number(7);
begin
   x:=10;
   y:=20;
   z:=x+y;
   dbms_output.put_line('Sum is '|| z);
end;
```

Experiment 5 b: To demonstrate PL SQL program to implement IF Condition
```
DECLARE
  a number(3) := 100;
BEGIN
  IF ( a = 10 ) THEN
    dbms_output.put_line('Value of a is 10' );
  ELSIF ( a = 20 ) THEN
    dbms_output.put_line('Value of a is 20' );
  ELSIF ( a = 30 ) THEN
    dbms_output.put_line('Value of a is 30' );
  ELSE
     dbms_output.put_line('None of the values is matching');
  END IF;
  dbms_output.put_line('Exact value of a is: '|| a );
END;
```

Experiment 5 c: To demonstrate PL SQL program to implement Greatest of three numbers
using IF ANDELSEIF

```
DECLARE
    a NUMBER := 10;
    b NUMBER := 20;
    c NUMBER := 15;
BEGIN
    IF a > b AND a > c THEN
    dbms_output.Put_line('Greatest number is '||a);
    ELSIF b > a AND b > c THEN
    dbms_output.Put_line('Greatest number is ' ||b);
    ELSE
    dbms_output.Put_line('Greatest number is ' ||c);
    END IF;
END;
```

Experiment 5 c: To demonstrate PL SQL program to implement Summation of odd
numbers using for LOOP

```
DECLARE
    num NUMBER(3) := 1;
    sum NUMBER(4) := 0;
BEGIN
    WHILE num <= 10 LOOP
        dbms_output.Put_line(num);
        sum := sum + num;
        num := num + 2;
    END LOOP;
dbms_output.Put_line('Sum of all odd numbers is '|| sum);
END;
```

Experiment 5 d: To demonstrate PL SQL program to implement GCD Numbers

```
DECLARE
    num1 INTEGER;
    num2 INTEGER;
    t INTEGER;
BEGIN
    num1 := 5;

    num2 := 75;
    WHILE MOD(num2, num1) != 0 LOOP
            t := MOD(num2, num1);
            num2 := num1;
            num1 := t;
    END LOOP;
    dbms_output.Put_line('GCD of '||num1 || ' and ' ||num2 ||' is ' ||num1);
END;
```