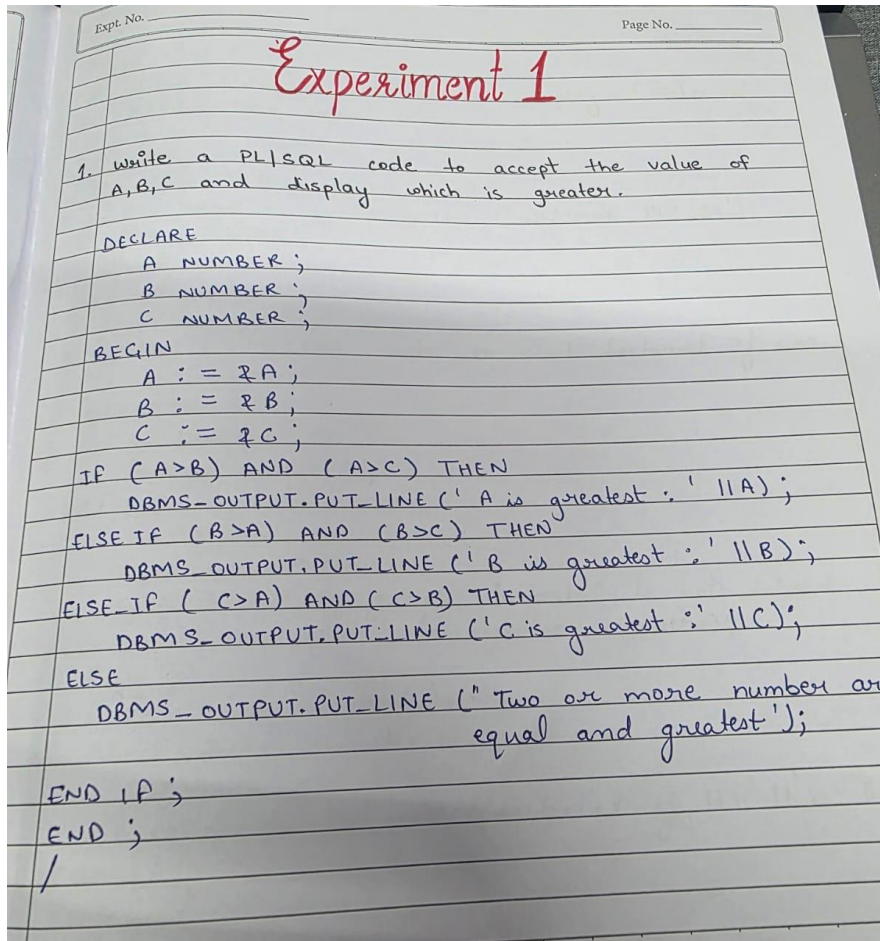


EXPERIMENT 1

1. Write a PL/SQL code to accept the value of A, B & C display which is greater.



```
DECLARE
  A NUMBER;
  B NUMBER;
  C NUMBER;
  D NUMBER;
BEGIN
  A := 50;
  B := 12;
  C := 34;
  D := 90;

  IF (A > B) AND (A > C) AND (A > D) THEN
    DBMS_OUTPUT.PUT_LINE('A is greatest: ' || A);
  ELSIF (B > A) AND (B > C) AND (B > D) THEN
    DBMS_OUTPUT.PUT_LINE('B is greatest: ' || B);
  ELSIF (C > A) AND (C > B) AND (C > D) THEN
    DBMS_OUTPUT.PUT_LINE('C is greatest: ' || C);
  ELSE
    DBMS_OUTPUT.PUT_LINE('D is greatest: ' || D);
  END IF;
```

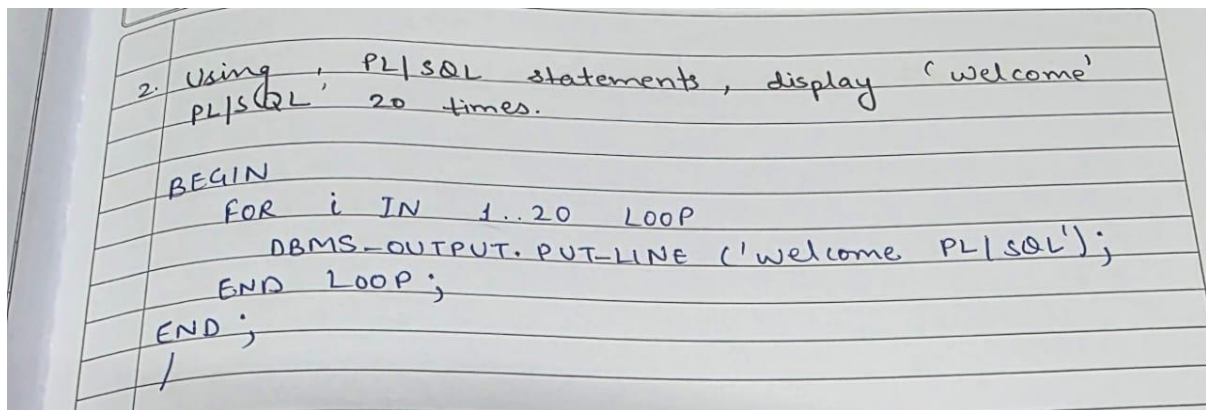
```

ELSIF (C > A) AND (C > B) AND (C > D) THEN
    DBMS_OUTPUT.PUT_LINE('C is greatest: ' || C);
ELSIF (D > A) AND (D > B) AND (D > C) THEN
    DBMS_OUTPUT.PUT_LINE('D is greatest: ' || D);
ELSE
    DBMS_OUTPUT.PUT_LINE('Two or more numbers are equal and greatest');
END IF;
END;
/

```

D is greatest: 90

2. Using PL/SQL Statements create a simple loop that display message “Welcome to PL/SQL Programming” 20 times.



2. Using PL/SQL statements, display 'welcome PL/SQL' 20 times.

```

BEGIN
  FOR i IN 1..20 LOOP
    DBMS_OUTPUT.PUT_LINE('welcome PL/SQL');
  END LOOP;
END;
/

```

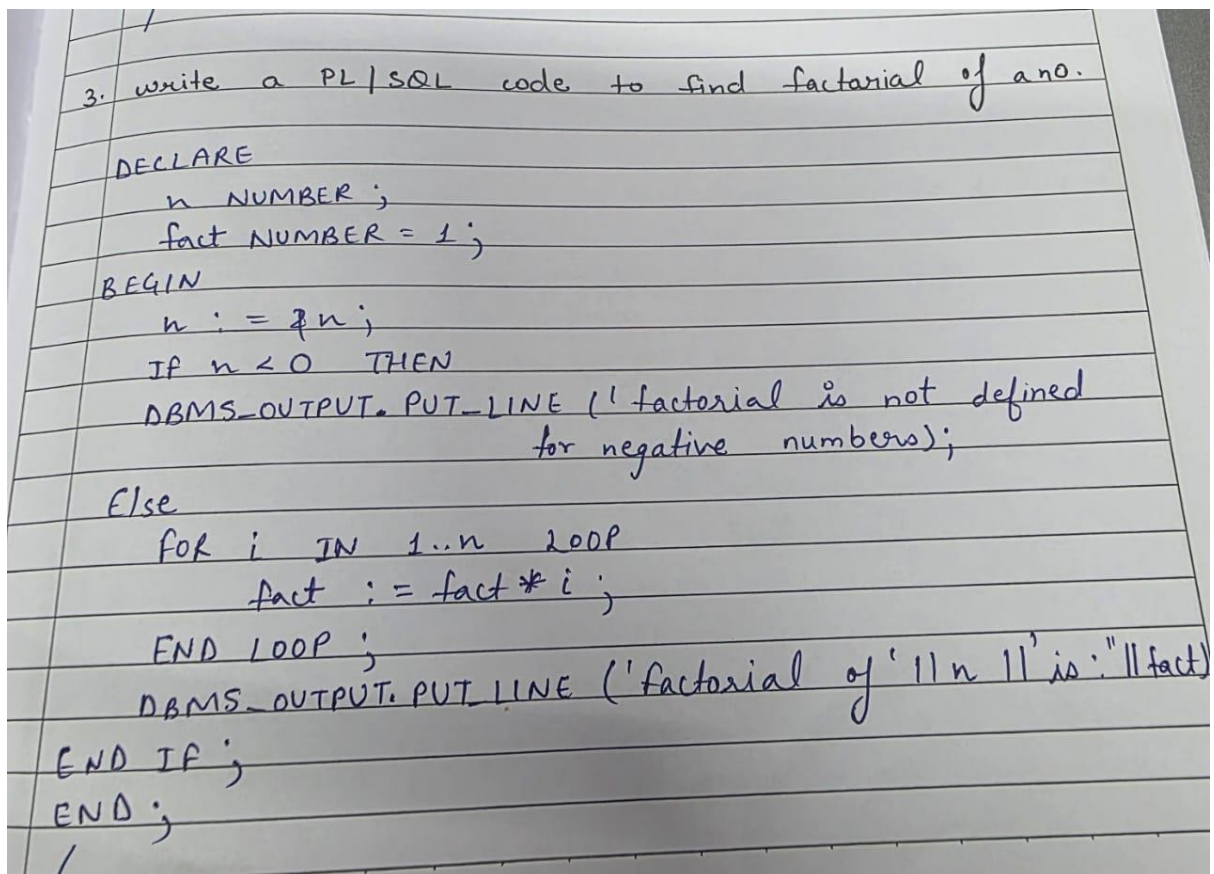
```

BEGIN
  FOR i IN 1..20 LOOP
    DBMS_OUTPUT.PUT_LINE('WELCOME PL/SQL');
  END LOOP;
END;
/

```

```
WELCOME PL/SQL
WELCOME PL/SQL
WELCOME PL/SQL
WELCOME PL/SQL
WELCOME PL/SQL
WELCOME PL/SQL
WELCOME PL/SQL
WELCOME PL/SQL
WELCOME PL/SQL
```

3. Write a PL/SQL code block to find the factorial of a number.

A photograph of a piece of lined paper with handwritten PL/SQL code. The code is written in black ink and includes comments and variable declarations. It uses DBMS_OUTPUT.PUT_LINE for output. The code is as follows:

```
3. write a PL/SQL code to find factorial of a no.

DECLARE
    n NUMBER;
    fact NUMBER = 1;
BEGIN
    n := &n;
    IF n < 0 THEN
        DBMS_OUTPUT.PUT_LINE ('factorial is not defined
                                for negative numbers);
    Else
        FOR i IN 1..n LOOP
            fact := fact * i;
        END LOOP;
        DBMS_OUTPUT.PUT_LINE ('factorial of ' || n || ' is: ' || fact);
    END IF;
END;
```

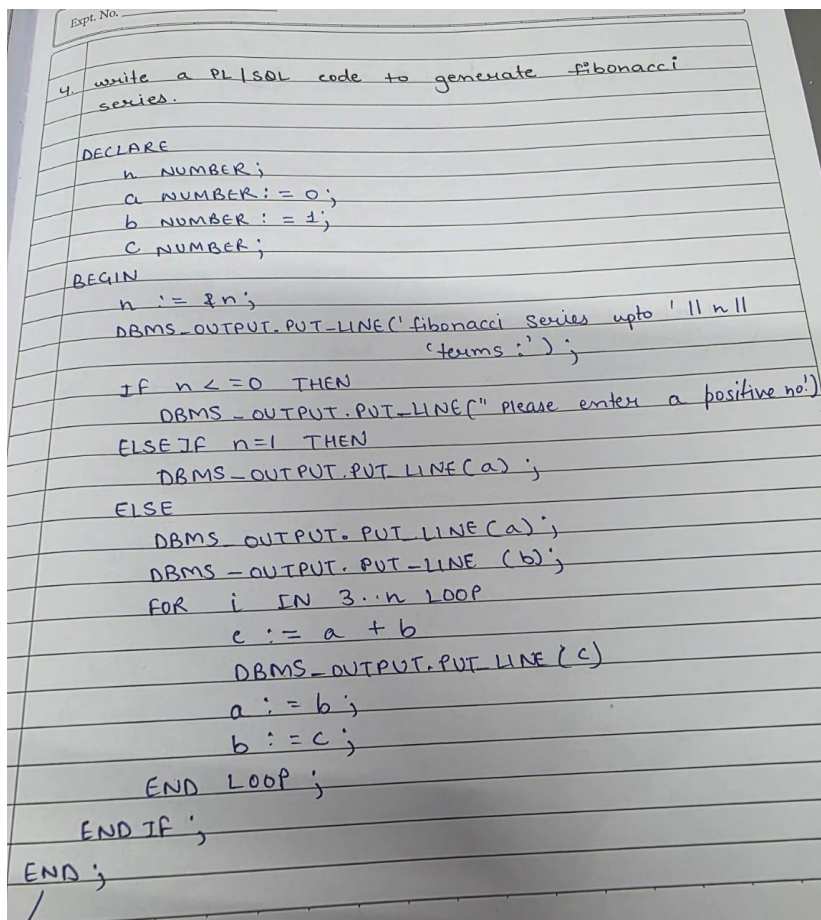
```

DECLARE
    n NUMBER;
    fact NUMBER := 1;
BEGIN
    n := 5;
    IF n < 0 THEN
        DBMS_OUTPUT.PUT_LINE('Factorial is not defined for negative numbers');
    ELSE
        FOR i IN 1..n LOOP
            fact := fact * i;
        END LOOP;
        DBMS_OUTPUT.PUT_LINE('Factorial of ' || n || ' is ' || fact);
    END IF;
END;
/

```

Factorial of 5 is 120

4. Write a PL/SQL program to generate Fibonacci series.



Expt. No. _____

4. write a PL/SQL code to generate fibonacci series.

```

DECLARE
    n NUMBER;
    a NUMBER := 0;
    b NUMBER := 1;
    c NUMBER;
BEGIN
    n := &n;
    DBMS_OUTPUT.PUT_LINE('fibonacci series upto ' || n ||
        ' terms :');
    IF n <= 0 THEN
        DBMS_OUTPUT.PUT_LINE('Please enter a positive no!');
    ELSE IF n = 1 THEN
        DBMS_OUTPUT.PUT_LINE(a);
    ELSE
        DBMS_OUTPUT.PUT_LINE(a);
        DBMS_OUTPUT.PUT_LINE(b);
        FOR i IN 3..n LOOP
            c := a + b;
            DBMS_OUTPUT.PUT_LINE(c);
            a := b;
            b := c;
        END LOOP;
    END IF;
END;
/

```

```

DECLARE
    a NUMBER := 0;
    b NUMBER := 1;
    c NUMBER;
    n NUMBER := 10;
BEGIN
    DBMS_OUTPUT.PUT_LINE('Fibonacci series up to ' || n || ' terms:');

    IF n <= 0 THEN
        DBMS_OUTPUT.PUT_LINE('Please enter a positive n');
    ELSIF n = 1 THEN
        DBMS_OUTPUT.PUT_LINE(a);
    ELSE
        DBMS_OUTPUT.PUT_LINE(a);
        DBMS_OUTPUT.PUT_LINE(b);
        FOR i IN 3..n LOOP
            c := a + b;

            c := a + b;
            DBMS_OUTPUT.PUT_LINE(c);
            a := b;
            b := c;
        END LOOP;
    END IF;
END;
/

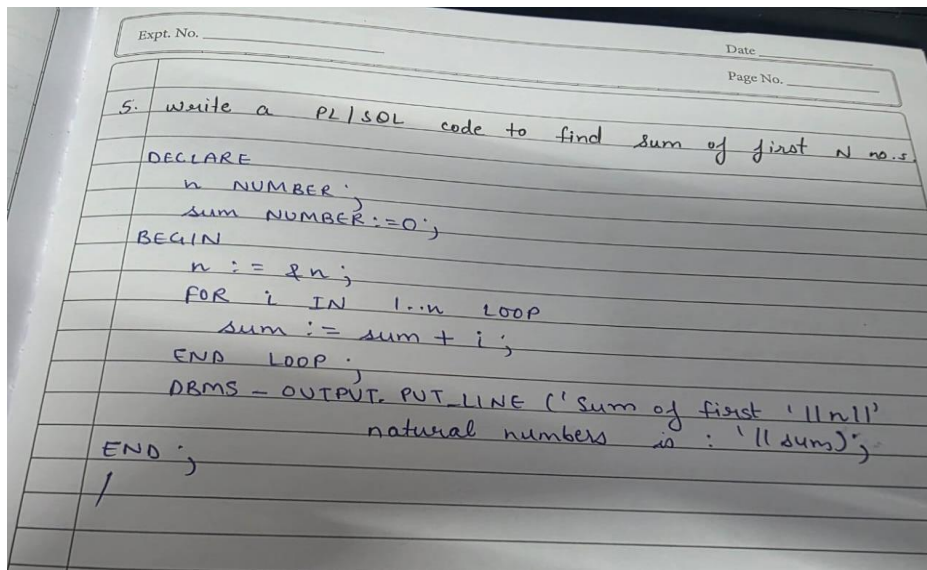
```

```

1
2
3
5
8
13
21
34

```

5. Write a PL/SQL code to find the sum of first N numbers



```
DECLARE  
  n NUMBER := 10;  
  total NUMBER := 0;  
BEGIN  
  FOR i IN 1..n LOOP  
    total := total + i;  
  END LOOP;  
  
  DBMS_OUTPUT.PUT_LINE('Sum of first ' || n || ' natural numbers is ' || total);  
END;  
/
```

Sum of first 10 natural numbers is 55