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Lab 9

Q1- Write a PL/SQL code to accept the value of A, B & C display which is greater.

```
DECLARE
    a NUMBER := 46;
    b NUMBER := 67;
    c NUMBER := 21;
BEGIN
    IF a > b
    AND a > c THEN
    --if a is greater then print a
    dbms_output.Put_line('Greatest number is '||a);
    ELSIF b > a
        AND b > c THEN
    --if b is greater then print b
    dbms_output.Put_line('Greatest number is '||b);
    ELSE
    --if c is greater then print c
    dbms_output.Put_line('Greatest number is '||c);
    END IF;
END;
```

```
Statement processed.
Greatest number is 67
```

Q2- Using PL/SQL Statements create a simple loop that display message "Welcome to PL/SQLProgramming" 20 times?

```
BEGIN
  FOR i IN 1..20 LOOP
    dbms_output.put_line('Welcome to PL/SQL Programming');
  END LOOP;
END;
```

```
Statement processed.
Welcome to PL/SQL Programming
Welcome to PL/SQL Programming
Welcome to PL/SQL Programming
Welcome to PL/SQL Programming
Welcome to PL/SQL Programming
Welcome to PL/SQL Programming
Welcome to PL/SQL Programming
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Welcome to PL/SQL Programming
Welcome to PL/SQL Programming
Welcome to PL/SQL Programming
Welcome to PL/SQL Programming
Welcome to PL/SQL Programming
```

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Lab 9

Q3- Write a PL/SQL code block to find the factorial of a number.

SQL Worksheet

```
Declare
num  number:= 7;
fact number:= 1;
temp number;
begin
  temp := num;
   while (num > 0)
loop
    fact := fact * num;
    num   := num - 1;
end loop;
  Dbms_Output.Put_line('factorial of ' || temp ||  '  is ' || fact);
end;
```

```
Statement processed.
factorial of 7  is 5040
```

Q4- Write a PL/SQL program to generate Fibonacci series

SQL Worksheet

```
DECLARE
   n NUMBER := 12; -- take input from user
   a NUMBER := 0;
   b NUMBER := 1;
   c NUMBER := 0;
BEGIN
   DBMS_OUTPUT.PUT_LINE('Fibonacci Series:');
   DBMS_OUTPUT.PUT_LINE(a);
   DBMS_OUTPUT.PUT_LINE(b);

   FOR i IN 1..n-2 LOOP -- loop n-2 times to print n numbers
     c := a + b;
     a := b;
     b := c;
     DBMS_OUTPUT.PUT_LINE(c);
   END LOOP;
END;
```

```
Statement processed.
Fibonacci Series:
0
1
1
2
3
5
8
13
```

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Lab 9

Q5- Write a PL/SQL code to fund the sum of first N numbers

SQL Worksheet

```
DECLARE
  n NUMBER := 10; -- take input from user
  total NUMBER := 0;
  i NUMBER := 1;
BEGIN
  WHILE i <= n LOOP
    total := total + i;
    i := i + 1;
  END LOOP;

  DBMS_OUTPUT.PUT_LINE('The sum of the first ' || n || ' numbers is ' || total);
END;
```

```
Statement processed.
The sum of the first 10 numbers is 55
```