REG No:- RA1811003010691 SEC:- D2 DATE:- 20/4/2021

**DDL WORKSHEET-XII** 

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I. Write a pl/sql block for the addition of two numbers.

```
SQL> set serveroutput on;
SQL set servero
```

II. Write a pl/sql block for doing various arithmetic operations.

```
SQL> set serveroutput on;

SQL> set serveroutput on;

SQL> declare

2 x number(5);

3 y number(5);

4 z number(7);

5 begin

6 x := 8x;

7 y := 8y;

8 z := x+y;

9 dbms_output.put_line('Sum is' || z);

10 end;

11 /

Enter value for x: 10 old 6: x := 8x;

new 6: x := 10;
Enter value for y: 20 old 7: y := 8y;
new 7: y := 20;
Sum is30

PL/SQL procedure successfully completed.
```

III. Write a pl/sql block to find the maximum among 3 numbers.

```
F:\Downloads\ORACLE CLIENT 11.2\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe
SQL> declare
     a number(5);
    b number(5);
c number(5);
    begin
    a := &a;
b := &b;
     c := &c;
     if (a>b) and (a>c)
     dbms_output.put_line(a || ' is the greatest');
    elsif (b>a) and (b>c)
 14 dbms_output.put_line(b || ' is the greatest');
 16 dbms_output.put_line(c || ' is the greatest');
 17
     end if;
 18 end;
Enter value for a: 20
old 6: a := &a;
 new 6: a := 20;
Enter value for b: 10
old 7: b := &b;
new 7: b := 10;
Enter value for c: 30
old 8: c := &c;
     8: c := 30;
30 is the greatest
PL/SQL procedure successfully completed.
```

IV. Write a pl/sql block to find the sum of natural numbers using control structure.

```
F\Downloads\ORACLE CLIENT 11.2\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe

SQL> declare

2 i integer;
3 s integer;
4 begin
5 s :=0;
6 for i in 1..10 loop
7 s:=s+i;
8 end loop;
9 dbms_output.put_line('Sum = '||s);
10 end;
11 /
Sum = 55

PL/SQL procedure successfully completed.
```

V. Write a pl/sql block to find the factorial of a given number using function.

```
F:\Downloads\ORACLE CLIENT 11.2\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe

SQL> declare

2 i integer;

3 s integer;

4 begin

5 s :=0;

6 for i in 1..10 loop

7 s:=s+i;

8 end loop;

9 dbms_output.put_line('Sum = '||s);

10 end;

11 /

Sum = 55

PL/SQL procedure successfully completed.
```

VI. Write a pl/sql block to generate even and odd numbers using control structures.

VII. Write a pl/sql block to generate Fibonacci series using procedure.

```
F:\Downloads\ORACLE CLIENT 11.2\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe
 QL> declare
  2 first number:=0;
     second number:=1;
  4 third number;
     n number:=&n;
  6 i number;
7
8 begin
9 dbms_output.put_line('Fibonacci series is:');
10 dbms_output.put_line(first);
11 dbms_output.put_line(second);
 13 for i in 2..n
 14 loop
15 third:=first+second;
 16 first:=second;
 17 second:=third;
 18 dbms_output.put_line(third);
 19 end loop;
 20 end;
Enter value for n: 6
old 5: n number:=&n;
new 5: n number:=6;
Fibonacci series is:
PL/SQL procedure successfully completed.
```

VIII. Write a pl/sql block to compute the sum of series  $1+1/x+2/x^2+3/x^3+...+n/n^n$ 

IX. Write a PL/SQL block to update salaries of all the employees who work in dept 10 by 15% If none of the emp salary is updated, display the message "none of the salary updated". otherwise display the total number of employees whose salary updated.

```
F\Downloads\ORACLE CLIENT 11.2\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe

SQL> declare
2 num number(5);
3 begin
4 update emp set sal=sal+sal*.15
5 where deptno=3;
6 if sql%notfound then
7 dbms_output.put_line('No salaries Updated');
8 elsif sql% found then
9 num:=sql%rowcount;
10 dbms_output.put_line('salary for ' ||num||' employees updated');
11 end if;
12 end;
13 /
salary for 2 employees updated

PL/SQL procedure successfully completed.
```

X. Write a PL/SQL block to find the name and salary of first five highly paid salaries.