Date: 23/9/25

Task No: 7 PL/SQL procedure, functions, loops

Aim:
To implement PL/SQL procedure, functions and loops on number theory and business scenarios

Procedure:
PL/SQL is combination of SQL along with the procedural features of programming languages. It was developed by Oracle corporation in the early 90's to enhance the capabilities of Structured Query languages.

Syntax: Declare
<declare section>
Begin
<executable command>
Exception
<exception handling>
end;

Program:
Declare
message varchar(20):='Slot closed';

Begin
dbms_output.put_line (messages
End;
output :- slot closed
Dynamic Input :- -set server output
on declare
x number (5);
y number (5)
z (number(9)
begin
x:=10
y:=12
z:=x+y
dbms.output

multiplication of x an of x and y "(11z)
end;

output multiplication of x and y:20

Declare
Mind number, 3) :100;
Begin: If (HCD=10) then
dbms_output.put_line
Else if (hcd=50) then ('value of hcd is 50);
dbms=output put line (*value of hcd
50");

```
Else If (hed - 110) then
    dbms_output.line ('False');

Else:
    dbms_output.line('NOW');

END IF;
```

output: None

Exact Value is 100

PL/SQL procedure successfully completed

Loop :-

```
Declare
    led number(1);
    oed number(1);
Begen <<outtloop>>
    For led IN 1 ... 2 loop
            <<Inner_loop>>
        For ed IN 1 ... 2 loop
            dbms_output line
("led " and oed is ; ||oed);
    End loop inner_loop;
END loop outer_loop;
End;
```

hed is : 1 and oid is : 1
hed is : 1 and oid is : 2
hed is : 2 and oid is : 1
hed is : 2 and oid is : 2

PL/SQL Procedure successfully completed.

Function :-

```
Create or replace function.

Begin
If id > 200 then
    Return ('No slot available');
Else
    Return ('slot open');
End if;
End;
```

SQL> Create or replace procedure prem_odd nos If cursor num_es is
select she_id from students;
V_Pd Number;
V_st odd Boolean
V_e Number;

```
Begin
   Open num_cus;
   Loop
      Fetch num_cus into v_id;
         Exit.
   while v_count in loop
         v_is_prime := TRUE

   for i in 2 .. Trunc(sqrt(v_num))
                                  loop
      IF MOD (v_num, i) = 0 THEN
            v_is_prime: FALSE;
            EXIT;
         END IF;
   If v_is_prime Then
         DBMS_Output.PUT_LINE
         v_Count; = v_count+1;
      End IF;
   END:
BEGIN:
      print_n(4)
End;
Output:= 1
         2
         3
```

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EX NO.	7
PERFORMANCE (5)	5
RESULT AND ANALYS'S (5)	5
VIVA VOCE (5)	3
RECORD (5)	5
TOTAL (20)	18
SIGN WITH DATE	

23/09/25

Result: Thus the Implementation of PL/SQL function and loops on database has been completed succesfully.