PL/ SOL procedures, functions, Loop

Aim:To implement place procedure, functions and loops on Number theory and business scenarios.

Procedure: -

PLISAL IS a combination of solvering with the procedural teatures of programming language. It was develop by oracle corporation into the early 90's to enchance the capabilities of sal. PLISAL is one of three key programming language embedded in the oracle potabase, along with sal itself and Java.

Declaration. -

Start with the keyword DECLARE

Pt is an optimal section and defines all

Variable, where as, subprograms and other

elements to be used in the program.

Executable Handling: -

and END and it is a mandatory section.

Enception Handling:

starts with the keyword EncEpIION

This is optional section contains exception
that hardle errore in the program

Syntax:

Detkomen

Declare Lactions sections BEGIN

```
Lexception handling >
    END;
   DECLARE
  mecsage Marchar : 2 (20) := "Admissim
  BEGIN
    dbms - output. put: Line (message);
  END:
016
Admission is open.
grand: -
 Set server output on;
 declare
     X number(5);
     y number (5);
     2 number (9);
  begin
    X: = 10.
   Y: = 12
dbms_output.put-line ("multiplication of
two num is 112);
end;
0/9
multiplication of two num is 120.
```

- crecutable command(c)>

EXCEPTION

```
declare
Nav1 grategos;
 Van 2 intern;
 Von 3 integer
begin
 110011: = + 10011;
  Von 2: = + Von 2;
 Von 3: = Von 1 + Von 2:
 dbms-output.put-line < von 3>;
 end;
Enget: -
tenter value for van 1: 60
 01d 6: Van 1:= & Van 1;
 new 6: May 1: = 20;
Enter value for Var 2: 30
  01d 7: 100 2: ENW12;
  new 7: 1/09 2: 230.
  90
Query:-
Declarie
   hid number (3):=100;
BEGRN
 2+ (hid 210) then
 dbms - output. put_ line("value of hid
                         15 10 ");
 61274 (hid= 20) then
 dbms-output.put-line ("Value of hid is
                           20"):
 Elsit (hid = 30) then
 dbone-output plut - line ("value of hid Ps
cice
 dbms-output.put - line ("None of the values
             is matching "1;
and if!
dbms - output. put - line (" Gract Value,
```

00000

```
hid re: " 11 hid);
 CMD
110
None of the value is modeling
Exact value of hid Te: 100.
root
De clare
   hid number(1);
   Kild old number (1);
    c < outer_loop>>
Begin
 for hid in 1 .... 3 100p
   · 1 maple lest
       < < 9001-100p>>
     1007 oid PM 1.... 3 100P
 d bons soutput. put - line ("hid is !" 11 hid!
                           and" ord "s: " Il oid),
     EMD 1006 10001-1006:
     ento woop outer - loop;
END.
9/10
                  1:27 610
     rs: 1 and
hid
                      15 1 5
                  bio
            and
      1:27
 hid
                  ord PL : 3
             and
 hid
     FC : 1
                  1 29 bio
             and
 hid
                       17:5
                  bio
      15:2 and
 red
                   E: 27 600
    Ps $ 2
             and
 hid
                   bro
                       11:25
             and
 hid
          3
```

11:2

12! 3

bio

bio

and

and

15:3

11:3

Md

hid

```
23
While Loop
create or Replace procedure print-
             princ - customer. 25
 cursof cust - cun Is
   Select SID from student:
   4-18 · Number:
   V-Is-prime Boolean;
         Number,
   V - 1
Begin
  open cust - cur;
   loop
  fetch cust-cur-Ento V-id;
  Enst when cust_ cur : NOT POUND;
 -- prime check using while loop
 2f V-id < 2 then
      V-98-prime:=folse;
  Use
    V-is-prime:= True;
    V-75: = 2)
   while V-ic = True (sarT(V-id)) loop
     2+ MOD (V-id, V-1)=0 then
      V-is-prime: = folle;
       frit;
   END IF:
 V - P:= V - T +/;
   FUD LOOP;
   END it.
  If V-is- prime then
    dbms - output. put - Une C"prime
```

Student DO'" 11 V-id):

19

```
While loop
  set server output on:
create or replace procedure print-first
      -n-primer (n number) Ps
   1 - rum dumber: = 20;
   1 - Number: = 0;
   V - is - prime Boolean:
Begin
 While U- Count < n Loop
  V-is-prime:=True;
  -- prime check using for loop
for i'n 2 ... Trun (squit(v-- rund)
       it mod (v-rumi) 20 then
       V-18-prime: 2 false;
      evit;
    END it;
END rook;
14 V - 95 - pine then
dbms_output.put_line("prime" 11 V-rum)
     V-count: = V-count + 1;
    END PT:
     1- num : = 1- num +1
     END 1000;
     FMD;
016
Exec print-first-n-primes(10);
```

cho it; cho loop; cho; cho; olp prime student .20:2 prime student 20:3 prime student 20:5

VEL TECH EX NO.	
PERFORMANCE (5)	17
RESULT AND ANALYS'S (5)	0
VIVA VOCE (5)	5
RECORD (5)	-
TOTAL (20)	100

Emplementation of pulsar procedures, functions and loop on number theory has been successfully executed.