PL SEL procedure, tunction, Loops.

Aim: To implement PL/SDL proudure, Functions and loops on number theory and business Scenarios.

Declaration:

Stouts with the regwood DELLARE. It is an optional section and defines all variables, where as, supprograms and other elements to be used in the program.

Executable Commands:

Enclosed between the kywords BEGIN and END and it is a mandatory section.

Exception thandling:

Stocks with the reyword EMCEPTION. This is optional size Section contains exception that hardle comors in the program

Syntan:

DECLARE.

L declarations sections

BEGIN

< excutable Command (s) >

EX CEPTION

END!

2 eruption hardlings

Quay:

DECLARE

message vaecher 2(20):- "-odniesion open":

BEGIN

dbms - output. put - line (message);

END;

```
Admission is open.
 Quey:
    Set serred put on;
  declare
      x number (s):
      y number (s);
      z number (9);
       x 1 = 10;
       4: = 12;
       Z: = x 4;
 dbms - output. put line ("nultiplication of two num is ! 1/2);
       end;
OP
  multiplication of two num is 120.
Query:
  declare
   val 1. integer:
   vod 2 integer:
    vois integer:
 begin
   YOR 1:= . YOR 1;
   Vove 2: = & vax 2;
   Val 3: = val 1 + val 2;
  dbms-output. put-line < 1002 3>;
       end;
```

```
Trout
 Enter value for vois 1: 60
    Ob 6: vax 1: = & vax 1;
    new 6: VOR1 : = 20;
  Enta Value for val 2: 30
    06 7: Val 2: & Val 2:
   ncw7: Vac 2: = 30;
  90.
 Query:
    Dedare
      hid number (1): = 100;
   BEGIN,
      If (hid = 10) Hun
   dbms - autput. put-line (value of hid is 10');
    Elif (hid = 20) then
   about - output. put - line (" value of hid is 30');
  doms-output put line ("None of the values is matching");
  End it:
  dbone-output. put - line (" Exact value of hid is: " Il hid);
   END:
   OP
None of the value ? 1 matching
   Enact value of hid is: 100.
```

```
Loop
      Declase
       hid numba (1);
        oid numba(1);
  Begin
       LL outa-loops
  For hid IN 1 .... 3 Loop
     << inna-loop>>
 For oid in 1... 3 60p
 doms - output . put - line l'hid is : "I hid II and oid is : "loid);
       End loop inna - loop:
     end loop outer - loop;
   end;
 output :
 hid is: I and oid is: 1
 Aid is: 1 and oid il:2
hid is: 1 and oid is: 3
 hid is: 2 and oid is:1
Nid is: 2 and Did is:2
hid is: 2 and oid is: 3
 Aid is: 3 and Oid is: 1
 hid is: 3 and oid is: 2
 hid is: 3 and Did is: 3
 while loop:
 Set sava output on:
           replace procedure print - tirst - n primes (n numbo) is
 Create or
       N- Num Numbo : = 20:
       V _ Numb a: 0:
      V . is - prime Bodian:
```

```
Begin
    while v-count < n loop
     V- is- prime: , Thue;
  - prime check using for loop
For i'm . .. - Trun (squit (v. .. num))
                    COOP
     if mod ( v-num:) =0, then
        V-is-prime: = dalle;
      Enit:
   End if;
 End loop:
 if v-is-prime their
   doms - output . put - line ("prime" 11 v - num);
         V. court : = V - court + 1;
    End it :
    V- num : - V- num + 1)
     End LOOP;
    End;
 DIP
          print first -n-primes (10):
    2
   11
  13
   19
   27
```

```
while bop
 Create or Replace procedure print-prime customer 76
  cursor cust - cus Js
  solid sin from student:
  vid Numba;
  V-13- prime Boolean;
              Numba;
   V - 1
Brgin
  open cust aw;
  COOP
  Fetch cust-cur JATO V-id;
  Exit when cust-cus 1. NOT FOUND;
-- prime chick using while loop
 Jr V-id 2 then
     V- is-prime: = Falle;
Else
   V- is-prime in trace;
    V-j:= 2;
while v-ix frue (salt (v-ia)) coop
   If NOD (v-id, v-i) =0 +cun
     V-is-prime := False;
     exit;
   End if;
    Y-1: 1/- 1+1:
  End 160P',
   Edd y;
   dome - output. put : line l: prime student 20: 11v-10);
  Jf V-12- prime their
     End if;
    End bop;
    close cust-cuz;
      Erd;
```

output:

prime student ID: L prime student ID: 3 prime student ID:5

	VEL TECH	
	EX NO.	
	PERFORMANCE (5) 6	
/	RESULT AND ANALYSIS (5)	
	VIVA VOCE (5)	
	RECORD (5)	
	TOTAL (20)	
	GN WITH DATE	19/1
sult:		

Result:

Implementation of PL/SEL procedures, functions and loop on number theory. has been successfully executed.