ght Tasky: PLISQL Procedures, function Loops fim: To simplement pl/sql procedures, function and loops on Number theory and business seemosios Prote edure: PLISQL is a combination of sac along with the procedural features of programming languages. It was developed by Oracle corporation in the early go's to enhance the Copobilities of SQL PLISQL in one of there key programming languages embedded in the asocle Database, along with SQL itself and Java. section of pescription Delorations Thissection Starts with the keyword DECARE. It is an optional Section and define all variables, cursors subpaggiom, and another elements to be Used in program Execulable commands This section is enclosed blu keyword BEGIN and 2 END Lit is a mandatoy section. It consists of execute PL/SQL Exception Handling This section stort with the kyword Exception This Optional Sectional Contains exceptions(1) the hunder enight in program. Simple pragram toppint a senctence Synton; DECLARE 2 declarations section? = executable commandly> EXCEPTON

```
Lex Ception handlings
 END;
P910991am:
 DECLARE
      mersage vorchar 2 (20): = 1 booking closed':
      dbms-output put - line (message);
  BEGIN
  END;
Static input:
SQL > Set serveroutput on
sals declare
   2 x numbere5);
   3 4 number 257;
   H Z number ( 97)
   5 begin
   6 xx=10;
      V:= 12:
   7
      7: = X+4
  9 dbms-output. pat- line & sumis' 1127;
  w end;
  11
 PLISOL procedure successfully completed
Sum 1822
 Dynamic Input
  set serveroutped on.
  declare
   x number (5);
  y number (5);
  z number(9);
  begin
    X: =10;
    4:=12;
    2 = x+y;
     dbms_output_line ( sum is 117);
```

```
end;
 1
SQL> declare
  2 Vari integer,
  3 varz ;ntegur;
  u vars integer;
  5 begin
      Var 1: = & Var 1;
   6
  7 Vor 2: = 2 var2;
     yours: = you 14 yours;
   9 Abms-output. put - line 2 var 37;
   8
   10 end;
   11 /
  Enter value for var 1: 20
   010 6: var1: = & var1;
   new 6: vari :=20)
   Enter Value For vours: 30
          7: Vor2: = 8 Var2;
   010/
    new 7: vars: = 30:
   PLISAL procedurie successfully completed.
    DECLA RE
        hid number (s) :=100;
    BEGIN,
        IF (hid=10) THEN
        dbms_output. put -line ( value of hid is 10');
        EISTF (hid fow THEN
         dbms-output . pud - line ( Value of hid is 20');
        EIST & (NIC >30) THEN
        dbms- output-put-line (Value of mid is 30);
     ELSE
        dbms - output put - line (None of the values is matching)
```

ENOTE: About-output put live (None of the value is matching): ENDIF: dbms-output put-line ('Exact Value of hid is: '11 hid) END; 1 None of the value is matching Exact value of hid is , 100 PLISQLP moredure successfully completed DE CLAPE hid number (1); oid number (1); BEEJIN LC outer-loop >> For hid IN 13. 3 Loop 26 inner\_(00p>) for old IN 1... 3 look dbms - output-line Chidis: "I hid Il andaid is: Nolas END Loop innor-loop: END Loop outer-loop; ENO; hid is: 1 and oid is:1 hid is and oraising hid is I and ording hidisiz and oid : 1 hidis:2 and oid:2 hidis=2 and oid=3 hidisis and oid: 1 hidis: 3 and old: 2 hidis: 3 and oid: 3 DUSER procedure successfull y completed.

Sample program for only procedure Sal = create or replace procedure es information 2 Leald for number, c-hame in varehors, 3 25 6 dbns-oidpor-pod-line 2'ID: 111c\_id>; 6 dbms - occupat - pd \_ like & Name: 11 (\_ namer) 7 end; 8 1 procedure created: sque exec es information 2101, 7 aams: PLHAT PROCEDURE SUCCESSICILLY completer: corsed someoutput on: SQL = EXEC (S in formation 2101, 2001) Tp: 101 Name : room PLISALPROCEDURE SUCCESSFULLY completed Sample paragram for only function: Sala (rede or replace function es information (h-id in number, c- name in var chows) Retwin varcharz LI Begin If c-yd>200thon Return ('no booking available'): else Petern ('booking open'); ENDIF: tend;

functioncreated
SQL > declare
2 mesg varchar 22200>:
3 begin
y mesg: = csinformation_2 c(0). raam'>;
5 dbms - output . put - lire Zmesg>:
6 end;
7 <i>/</i>
rehicle available
renicle avaires
SQL> declore
2 mesg von char 22 200);
3 begin (crimation 2 206) boam't;
y mesg: = cs information 2 206, baam's;  y dbms = output put _ line Lmesg?;
5 dbms = outped par
6 fend;
No vechicle available
PL/SQL Procedere Success Fully completed.
VEL TECH
EX NO.
resultandanauxes(a)
VIVA VOCE (內) RECORD (多)
SIGN WITH DATE
Pesult: Thus, Implementation of PLISAL procedures
for (60ps and functions has been successfully
Completed.

Task 7:1: PL/SQL procedurce for loops Towrite PL/SQL paragram using loops for pounting Aim: Povime num ben Coustomer &D and for demon strating loop control indifferent scenarios Procedure 1) Start a PLKQL block or procedure 2) Use a cursor to fetch customer Is s from a table 3) for each ID, check whether it is a porimenumber 4) USE For Loup/while loop to demostrate primehanbar Checking 5) Por int the Gresult using DBMS-output pid-line. 6) End the block Ex: 1 Using whileloop with cursor Prime check using while loop Create procedure print-prime custome CXPSOR (WH- CWris select contomor-id from customers. V-id Number; V-is-Prime Booleani v-1 Number; Be gin open cust - (us; Fell cwt-cur/into v-id; 100 P Exit when clust-cursto NOTFound! Prime check asing while loop If V-13- 22 Then V- is- Prime = = fage; € lie V-is-prime:=Trui;

```
V-1 8 =2;
     While vic = Trum ( (SQR+(v-id) (OOP
       It mad (V-1d, V-1) = 0 Them
              V- 11- prime: = false;
              Exit 3f
              END If;
              V-1:=V-1+0
             ENDLOOP;
           ENO If:
         If V-11 - prime than
          DBM) - oct put. put - line ( Prine ( wtonsai o 11 v-io)
       ENd If;
     END (00P;
    close cost-cur
This procedure thecks all customer I De in the lab to
and prints thepsine one using a while Loop.
EX:2 Using for look for first N prime pumba
creat à or replace procedure print first-h-prime
      (n Number) 15
    V- Num Number: :2)
    v-count Number: =0;
      v-is- prime Booleans
Begin while 1 - com 2 n (00)
        V-1/2 prima: = True;
   - - Prime theck using for loop
    For : IN 2 - - Taune (spet(v-num) loop
      If mod (v-num, i) = 0 Thun
           v-is-Prine: = Falsei
       Exiti
     End if
```

End loop;
If v-is-prime Thun
DBMS_OUTPUT. PU +_ LINE( Prime: / 1 v_ nan);
V- (ount : = V- (ount + 1)
ENOIL;
V- nwm = = V-hum+;
END look
ENO;
This procedure prints the first Nprime numbers using
a for loop.
for example:
Begin  print - first-n-prime (10); privits first 10  prime numbers
END;
VEL TECH EX NO.
PERFORMANCE (5)
RESULT AND ANALYS'S (5)
VIVA VOCE (5)  RECORD (5)
TOTAL (20)
Result! Thus, Impresentation of PLISQL proximer
Result: Thus, Implementation of PLISQL programmers from those and loops on number theory has been
successfully en conted.
Calles turn on con ta.