Aim:- To implement pl/sql procedures, functions and loops on number theory and bussiness sceneries

Procedure:-

PL/SQL is a combination of sql along with the procedural features of programming languages. it was developed by oracle comparation in the early 90's to enhance the capabilities of sql. PL/sql is one, three key programming language embedded in oracle database, along with sql itself and Java

Simple program to print a Sentence:-

Syntax:- DECLARE

< declaration section >

BEGIN

< executable section>

Exception

< exception handling >

End;

Program:

DECLARE

message varchar (20): = 'booking closed':

BEGIN

dbms_output.put_line (message):

END:

output:- Booking closed

```
Dynamic Input:
Set serveroutput on;
declare
    x  number(5);
    y  number(5);
    z  number(9);
begin
    x:=10;
    y:=12;
    z:=x+y;
    dbms_output.put_line ('sum is'||z);
end;
/
output: Sum is 22
declare
var1 integer;
var2 integer;
var3 integer;
begin
var1:=&var1;
var2:=&var2;
var3:=var1+var2;
dbms_output.put_line(var3);
End;
/
Enter values for var1:20
Old 6: var1:=&var1;
new 6:var 1:=20;
Enter value for var2:30
Old 7: var2:=&var2;
new 7:var 2:=30;
50
```

```
Declare
  hid Number(3): =100;
BEGIN
  if(hid = 10) then
  dbms-output.put_line('value of hid is 10');
  else if (hid=20) then
    dbms_output.put_line('value of hid is 20');
  else if (hid =30) then
    dbms_output.put_line ('value of hid is 30');
  else
    dbms_output.put_line ('None of the value is matching');
  End if
  dbms_output.put_line ('Exact value of hid is :'||hid);
End;
```

output

None of the values is matching
Exact value of hid is : 100

```
Declare
  hid number(1);
  old number(1);
Begin
    << outer_loop >>
  for hid in 1...3 Loop
    << Inner loop>>
  for old in 1...3 Loop
  dbms-output.put_line('hid is:'|| hid||'and old is :'||old);
  End loop inner_loop;
  End loop outer_loop;
  End;
```

Output

hid is :1 and old is: 1
hid is: 1 and old is: 2
hid is: 1 and old is: 3
hid is: 2 and old is :1

d is : 2 and old is: 2
d is: 2 and old is: 3
id is: 3 and old is: ,
id is: 3 and old is: 2
id is: 3 and old is: 3

rogram for only procedure

```
reate or replace procedure cs information
(C-id in number, C-name in varchar 2)
is
begin
dbms_output.put_line ('ID:'||c_id);
dbms_output.put_line ('Name:'||c_name);
end;
/
```

Procedure created
exec cs information (1001,'raam');
PL/SQL Procedure Successfully Completed
Set serveroutput on;
exec Csinformation (101, 'raam');
ID : 101
Name : raam
Program

```
Create or replace function csinformation
(h-id in number, C-name in varchar 2)
Return varchar 2
Is
Begin
if C-id> 200 then
Return ('no booking avaliable');
Else
Return ('booking open');
End if;
End;
```

function created

```
declare
mesg varchar 2 (200);
begin
mesg: = Csinformation (102, 'raam');
dbms-output.put-line (mesg);
end;
/
```

vehicle avaliable
output :- booking open.

```
declare
mesg varchar 2 (200);
begin
mesg: = Csinformation (206, 'raam');
dbms-output.put-line (mesg);
end;
/
```

No vehicle avaliable
output :- no booking avaliable

Result :- Thus, the implementation PL/SQL procedure, functions and loops on number theory and business Cenerics was completed.