Task 7: PL/SQL Procedures for loops, functions

Aim:- To implement PL/SQL procedures, functions, and loops on number theory and bureriven

procedure:-

PL/SQL is a conditions of SQL along with the procedial feautures of programming language. It was developed by oracle corporation on the early 90's to inhance the cepretion of SQL.

sections & Desephony

1. **Declaration:**

This section starts with the keywords DECLARE
It is an optional section and defnes all variables.

2. **Executable**

This section is enclosed between the keywords BEGIN and END and of to a mandatory section
It concets of Exectabte PL/SQL statemonth of program.

3. **Exception Handling**

This section starts with the keyword exph
Simple program to print a sentene

Syntax:

```
DECLARE
    < declaration section >

BEGIN
    < Execulable command (s) >
```

Exeption
<Exeuction handling>
END;

Program:
DECLARE:
    message varchar 2(0) : 2' booking closed;
BEGIN
    dbms _ output . put_ line (message);
END:
  state input;
  SQL > set serve ctput on

  saL > declare
    2 x number (5);
    3 y number (5) ;
    4 z number (9);
    5 beg an
    6 x i = 10;
    7 y i = 12;
    8 zi = x+y;
    9 dbms - output put _ live (sum is 11z);
    10 end;
    11 /

  sum → 22
    PL / SQL Procedre successfully completed

Dynamic input:
set serveroutput on;
declare
    x number (s);
    y number (5);
    z number (9);
begin
    x i = 10;
    y i = 12;
    z number x+y;

```
dbms - output - line ('sum is '||z);
end;
/
sql > declare
    2      var1    integer;
    3      var2    integer;
    4      var3    integeter;
    5      begin
    6      var1 ; =   & var1:
    7      var2 ;   =  & var2;
    8      var3 ;   =  var1 + var2:
    9      dbms - output - put - line . (var3);
   10      End;
   11      /
```

Enter value for var1 : 20

old   6 : var 1 : & var 1;

new   6 : var 1 : 20;

Enter value for var 2 ; 30

old   7 :   var 2   = & var 2;

new   : var 2   : = 30;

50

PL / SQL procedure successfully competed.

```
DECLARE
hid number (3) ; = 100;
BEGIN
  If (hid = 10) Then
    dbms - ouppit . put - line ('value of hid is 10');

ELSIF (hid = 20) Then

    dbms - output - put - line ('value of hid to 20);
ELSIF (hid = 20) Then
    dbms - output - pub line ('value of hid of 30);
EUIP
```

dbms. output. put_line (' none of value is madd 4)
END IP:
dbms _ output _ put _ line ('Exact value of h.d is: '
END: || h.d);
/

none of value is matching
Exteract value of h.d is : 100
PL/SQL Procedure successfully completed.
sample program For only function :-
SQL > Create or replace function cs inforrmat
(h-id) in number ; C-name in varchar 2)
return varchar 2
IS
Begin
If C.id >200 than
Return ("no booking available");
else
Return c' booking Aren:);
end if;
End;
Function Created.
SQL > declare
  2   mesg varchar 2 < 200>;
  3   begin
  4   mesg :   = cs, information 2<20 6; roam's;
  5   dbms _output . put _ line <mesg>
  6   End;
  7   /
No value avarible
PL/SQL procedures successfully completed

VEL TECH	
EX NO.	7
PERFORMANCE (5)	2
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	6
RECORD (5)	
TOTAL (20)	6
SIGN WITH DATE	23/9/0

Result:- Thus, Implementation of PL/sql
procedeo for loops and function been
successfully completed.