8-8-25

Task-6: PL/SQL procedures, functions, loops

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

Procedure:- PL/SQL is a combination of SQL along with the procedural features of programming language. It was developed by Oracle Corporation in the early 90's to enhance the capabilities of SQL.

Simple program to print a sentence

Syntax:-

```
Declare
    <declarations section>
    BEGIN
     <executable command(s)>
    EXCEPTION
     <exception handling>
     END;
```

Program:-

```
DECLARE
 message varchar2(20) := 'booking Closed';
BEGIN
   dbms output.Put line (message);
END;
```

Static Input:- set serveroutput on

SQL> delare

```
2  x number(5);
3  y number(5);
4  z number(9);
5  begin
6  x:10;
7  y:12;
8
9  z:x+y;
10 dbms_output.Put_line ('sum is':: z);
11 end; /
```

Sum is 22

Dynamic Input: SQL> declare

```
2   var1 integer;
3   var2   "   ;
4   var3   "   ;
5   begin
6   var1:= &var1;
7   var2:= &var2;
8
9   var3:= var1+var2;
10  dbms_output.Put_line (var3);
11  end;
```

(6)

```
SQL*Plus: Release 11.2.0.2.0 Production on Thu Sep 25 14:41:38 2025

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SQL> connect
Enter user-name: system
Enter password:
ERROR:
ORA-01017: invalid username/password; logon denied


SQL> connect
Enter user-name: system
Enter password:
Connected.
SQL> set serveroutput on
SQL> declare
  2  x number(5);
  3  y number(5);
  4  z number(9);
  5  begin
  6  x:=10;
  7  y:=12;
  8  z:=x+y;
  9  dbms_output.put_line('sum is'|| z);
 10  end;
 11  /
sum is22

PL/SQL procedure successfully completed.

SQL> declare
  2  var1 integer;
  3  var2 integer;
  4  var3 integer;
  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: var1:=&var1;
new   6: var1:=20;
Enter value for var2: 30
old   7: var2:=&var2;
new   7: var2:=30;
50

PL/SQL procedure successfully completed.

SQL> create or replace procedure csinformation
  2  (c_id in number,c_name in varchar2)
  3  is
  4  begin
  5  dbms_output.put_line('ID:' || c_id);
  6  dbms_output.put_line('name:' || c_name);
  7  end;
  8  /

Procedure created.

SQL> exec csinformation(101,'raam');
ID:101
name:raam

PL/SQL procedure successfully completed.

SQL> set serveroutput on;
SQL> exec csinformation(101,'raam');
ID:101
name:raam

PL/SQL procedure successfully completed.
```

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RECORD (5)	19
TOTAL (20)	
SIGN WITH DATE	

```
DECLARE
  hid number(3):= 100;
BEGIN
   IF (hid=10) THEN
    dbms_output.put_line ('value of hid is 10');
   ELSEIF (hid = 20) THEN
    dbms_output.put_line('value of hid is 20');
   ELSEIF (hid =30)THEN
      ..        ..        ..        ..      ..      ..
    ELSE
      dbms_output.put_line('None of the value is matching');
   END IF;
      dbms_output.put_line('Exact value of hid is :' ||hid);
   END; /
```

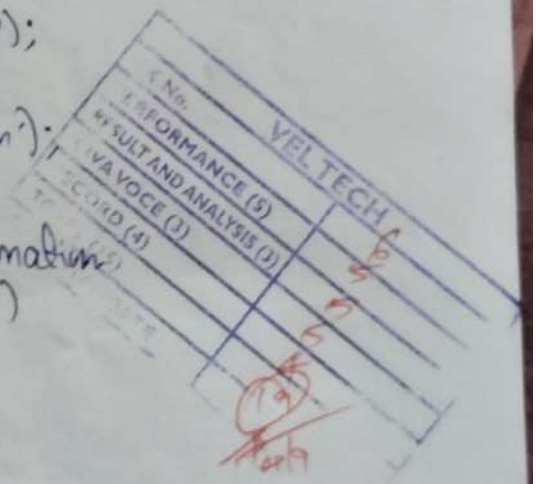
Sample program for only procedure:

```
SQL> Create or replace Procedure cs information
    (c_id in number, c_name in varchar2)
2   is
3   begin
4   dbms_output.put_line ('ID: ':' c_id);
5   dbms_output.put_line ('Name: ':' c_name);
6   end;
7   /
```

```
SQL> exec csinformation (101,'raam');
SQL> set serveroutput on;
SQL> exec cs information (101,'raam');
```

Sample program for only function:

```
SQL> create or replace function cs information
(c_id in number, c_name in varchar2)
Return varchar2    IS    BEGIN
If c_id > 200 then
Return ('no booking available');
Else
Return ('booking open');
End if;
End;
```



Result: Thus the pl/sql procedures, functions, loops has been executed successfully.