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Experiment no: 3
Experiment title: Implement procedures, functions and cursors in PL/SQL.

A. Implement Procedures in PL/SQL.

1. Create a schema level procedure to display a simple message “Hello”. Call the procedure by passing appropriate arguments.

```
create or replace procedure display as
begin
        dbms_output.put_line('hello');
end;
```

```
Procedure created. hello
```

2. Create a block level procedure to display a simple message “Hello”.

```
declare procedure display is
begin
        dbms_output.put_line('hello ameya');
end;
begin
        display;
end;
```

```
hello ameya
```

3. Create a procedure to find square of a number using two different modes of parameter passing.

IN , OUT mode

```
declare c number;
   procedure square(x in int, y out int) is
   begin
      y := x * x;
      dbms_output.put_line(y);
   end;
begin square(10, c); end;
```

```
100
```

IN OUT mode.

```
declare
   num number := 10;
   procedure square(x in out number) is
   begin
      x := x * x;
      dbms_output.put_line(x);
   end;
begin square(num);  end;
```

```
100
```

4. Create table Student with attributes roll_no, name, address, contact_no.

```
create table student(roll int, name
varchar(20), address varchar(20), contact int)
```

```
Table created.
```

5. Create a schema level procedure to insert values in Student table. Call the procedure and insert 4 rows in the table. Print the table using SQL statement.

```
create or replace procedure insertdata(sroll
student.roll%type, sname student.name%type,
sadd student.address%type, sphone
student.contact%type) as
begin
        insert into student values(sroll, sname,
        sadd, sphone);
end;
```

```
Procedure created
```

```
begin insertdata(1, 'abc', 'kop', 978852);
        insertdata(2, 'def', 'kudal', 975852);
        insertdata(3, 'ghi', 'gargoti', 878852);
        insertdata(4, 'pop', 'kankavli', 975552);
end;
```

```
Statement processed
```

select * from student;

ROLL	NAME	ADDRESS	CONTACT
1	abc	kop	978852
2	def	kudal	975852
3	ghi	gargoti	878852
4	pop	kankavli	975552

6. Create a block level procedure to find name of the student if roll_no and address is given. Call the procedure by passing appropriate arguments.

```
declare sname student.name%type;
procedure find(sroll student.roll%type, sadd
student.address%type) is
begin
        select name into sname from student
        where roll = sroll and address = sadd;
        dbms_output.put_line(sname);
end;
begin find(1, 'kop'); end;
```

```
abc
```

7. Create a schema level procedure to update contact_no of student if roll_no is given. Call the procedure by passing appropriate arguments.

```
create or replace procedure updatedata(sroll
student.roll%type, sphone student.contact%type)
as
begin
        update student set contact = sphone where
        roll = sroll;
end;
```

```
Procedure created
```

```
begin updatedata(1, 888888); end;
```

```
Statement processed
```

8. Create a block level procedure to delete a student record if roll_no and name is given. Call the procedure by passing appropriate arguments.

```
declare procedure removedata(sroll
student.roll%type, sname student.name%type) is
begin
        delete from student where roll = sroll and
        name = sname;
end;
begin removedata(3, 'ghi'); end;
```

```
1 row(s) deleted.
```

ROLL	NAME	ADDRESS	CONTACT
1	abc	kop	888888
2	def	kudal	975852
4	pop	kankavli	975552