

Experiment 3.1**Name:** Rohan Jaiswal**UID:** 21BCS2856**Branch:** CSE**Section/Group:** 608 (B)**Semester:** 3rd**Date of Performance:** 03/11/2022**Subject Name:** DBMS**Subject Code:** 21CSH-214**Aim:**

Introduction and implementation of programs of Procedures.

Objective:

Learning and implementing Procedures.

Theory:

- Subprogram
 - Procedure – Perform an action.
 - Function – Compute a value.
- Local Subprogram – Subprogram declared inside a block its scope is that scope only.
- Stored Subprogram – Subprogram stored which can be called anytime and anywhere.

❖ ADVANTAGES

1. Extendibility
2. Modularity
3. Reusability
4. Maintainability
5. Abstraction

DBMS script and Output:

1. Create a local procedure to increase salary of all employees of 'CSE' department by certain amount.

Code:

```
DECLARE
    amt number;

    Procedure salary_raise_CSE (raise number) as

begin
    Update emp set salary=salary+raise where dept='CSE';
end salary_raise_CSE;

BEGIN
    amt:=Enter_amount;
    salary_raise_CSE(amt);
END;
```

Output: (for input 500)

Before:

EID	ENAME	SALARY	DEPT
1	Rohan	1000	CSE
2	Sinu	100	ECE
3	Sameer	700	CSE
4	Harsh	200	AI
5	Ruhela	10	AI
6	Himu	1000	CSE
7	Mrinal	500	AI

After:

EID	ENAME	SALARY	DEPT
1	Rohan	1500	CSE
2	Sinu	100	ECE
3	Sameer	1200	CSE
4	Harsh	200	AI
5	Ruhela	10	AI
6	Himu	1500	CSE
7	Mrinal	500	AI

2. Find grade of student from marks entered by user at runtime.

```
--Stored Procedure
Create Procedure fire_emp(emp_no number) as
begin
    DELETE from emp where eid=emp_no;
end fire_emp;

-- Program
DECLARE
    emp_no number;
BEGIN
    emp_no:=Enter_Emp_no;
    fire_emp(emp_no);
END;
```

Output: (for input 3)

Before:

EID	ENAME	SALARY	DEPT
1	Rohan	1500	CSE
2	Sinu	100	ECE
3	Sameer	1200	CSE
4	Harsh	200	AI
5	Ruhela	10	AI
6	Himu	1500	CSE
7	Mrinal	500	AI

After:

EID	ENAME	SALARY	DEPT
1	Rohan	1500	CSE
2	Sinu	100	ECE
4	Harsh	200	AI
5	Ruhela	10	AI
6	Himu	1500	CSE
7	Mrinal	500	AI

Learning outcomes (What I have learnt):

1. Learned about DBMS languages.
2. I have learned about PL/SQL block Structure.
3. Learn about Four components of PL/SQL and their function.