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# WORKSHEET 3

**AIM:** To design and implement a simple PL/SQL program that demonstrates the basic structure of a PL/SQL block using employee details. The program includes a declaration section for defining variables and an execution section for displaying employee information using output statements

**S/W Requirement:** Oracle Database Express Edition, SQL*Plus / Oracle SQL Developer

## OBJECTIVES:

- To understand the basic structure of a PL/SQL block

- To declare and initialize variables in the DECLARE section

- To execute procedural statements in the BEGIN–END block

- To display output using DBMS_OUTPUT.PUT_LINE

## Problem Description:

An organization wants to display basic employee details such as Employee ID, Employee Name, and Employee Salary using a PL/SQL program. The program should demonstrate the use of variable declaration and execution blocks and should print the stored values using appropriate output statements.

## Program Design:

**Variables Used**

- **emp_id** – Stores Employee ID

- **emp_name** – Stores Employee Name

- **emp_salary** – Stores Employee Salary

1. **Database Design**

```
DECLARE
    emp_id      NUMBER := 101;
    emp_name    VARCHAR2(50) := 'John Smith';
    emp_salary NUMBER := 45000;
BEGIN
    DBMS_OUTPUT.PUT_LINE('Employee ID     : ' || emp_id);
    DBMS_OUTPUT.PUT_LINE('Employee Name   : ' || emp_name);
    DBMS_OUTPUT.PUT_LINE('Employee Salary : ' || emp_salary);
END;
```

OUTPUT:

```
SQL> DECLARE
        -- Declaration Section
        emp_id      NUMBER := 101;
        emp_name    VARCHAR2(50) := 'John Smith';...
Show more...




Employee ID     : 101
Employee Name   : John Smith
Employee Salary : 45000


PL/SQL procedure successfully completed.

Elapsed: 00:00:00.006
```

## Learning Outcomes:

1. Understood the structure of a basic PL/SQL block.
2. Learned how to declare and initialize variables in PL/SQL.
3. Gained practical experience in using DBMS_OUTPUT.PUT_LINE to display output.
4. Improved understanding of procedural programming concepts in Oracle databases.

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## Conclusion:

This experiment successfully demonstrated the working of a basic PL/SQL program using employee details. By separating the declaration and execution sections, the program clearly illustrated how PL/SQL processes data and produces output. This experiment forms a foundation for learning advanced PL/SQL concepts such as conditional statements, loops, procedures, and functions.