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**Semester:** 4  
**Subject Name:** Database Management System

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## Experiment – 3

### 1. Aim of the Session

To understand the basic structure of a PL/SQL program by creating and executing a simple PL/SQL block that includes Declaration and Execution sections and to display output using built-in procedures.

### 2. Software Requirements

Database Management System: Oracle Database

Database Administration Tool: Oracle SQL Developer

### 3. Objectives

- To learn the structure of a PL/SQL block.
- To use the DECLARE section for variable declaration.
- To use the BEGIN...END block for execution.
- To display output using `DBMS_OUTPUT.PUT_LINE`.

### 4. Procedure of the Experiment

1. Open Oracle SQL Developer and connect to the Oracle database.
2. Open a new SQL Worksheet.

3. Enable server output using `SET SERVEROUTPUT ON;`.
4. Write a PL/SQL program with:
  - Declaration section for variables
  - Execution section for calculations and output
5. Execute the program and observe the results in the output window.

## 5. Practical / Experiment Steps

1. Enable server output: `SET SERVEROUTPUT ON;`
2. Declare variables: `emp_id`, `emp_name`, `birth_year`, `current_year`, and `age`.
3. Assign values to the variables.
4. Calculate age as `age := current_year - birth_year;`.
5. Display all values using `DBMS_OUTPUT.PUT_LINE`.
6. End the PL/SQL block using `END;` and execute with `/`.

## 6. Input / Output Details and Screenshot

Program (Input):

```
[ SQL Worksheet ]* ▶ ⏷ ⏸ ⏹ ⏺ ⏻ Aa ▾ ⏴
```

```

1  SET SERVEROUTPUT ON;
2
3  DECLARE
4      emp_id NUMBER := 101;
5      emp_name VARCHAR2(50) := 'Bhavya';
6      birth_year NUMBER := 2006;
7      current_year NUMBER := 2026;
8      age NUMBER;
9  BEGIN
10      age := current_year - birth_year;
11
12      DBMS_OUTPUT.PUT_LINE('Employee ID: ' || emp_id);
13      DBMS_OUTPUT.PUT_LINE('Employee Name: ' || emp_name);
14      DBMS_OUTPUT.PUT_LINE('Birth Year: ' || birth_year);
15      DBMS_OUTPUT.PUT_LINE('Current Year: ' || current_year);
16      DBMS_OUTPUT.PUT_LINE('Age: ' || age || ' years');
17  END;
18

```

Output:

Query result    Script output    DBMS output    Explain Plan    SQL history

Employee ID: 101  
Employee Name: Bhavya  
Birth Year: 2006  
Current Year: 2026  
Age: 20 years

PL/SQL procedure successfully completed.

Elapsed: 00:00:00.008

## 7. Learning Outcome

- Understood the basic structure of a PL/SQL block.
- Learned how to declare and initialize variables.
- Learned how to execute statements inside BEGIN...END block.
- Learned how to display output using DBMS\_OUTPUT.PUT\_LINE.