Ex.No.: 11	PL SQL PROGRAMS
Date:	

```
Here are the PL/SQL programs as requested:
### PROGRAM 1
**PL/SQL block to calculate the incentive of an employee whose ID is 110.**
```sql
DECLARE
 v_employee_id NUMBER := 110;
 v_salary employees.salary%TYPE;
 v_incentive NUMBER;
BEGIN
 SELECT salary INTO v salary FROM employees WHERE employee id = v employee id;
 v_incentive := v_salary * 0.10; -- Assuming 10% incentive rate
 DBMS_OUTPUT.PUT_LINE('Incentive for employee ID ' || v_employee_id || ' is: ' ||
v_incentive);
END;
PROGRAM 2
**PL/SQL block to show an invalid case-insensitive reference to a quoted and
unquoted user-defined identifier.**
```sql
DECLARE
  "MyVariable" NUMBER := 100; -- Quoted identifier
  myvariable NUMBER := 200; -- Unquoted identifier
 BEGIN
  DBMS_OUTPUT.PUT_LINE('Value of "MyVariable" is ' ||
  "MyVariable"); DBMS_OUTPUT.PUT_LINE('Value of myvariable is ' ||
  myvariable);
  -- Uncommenting the next line will cause an error, as quoted and unquoted identifiers are
```

treated differently.

```
-- DBMS_OUTPUT.PUT_LINE('This will cause an error: ' || MyVariable);
END;
### PROGRAM 3
**PL/SQL block to adjust the salary of the employee whose ID is 122.**
```sql
DECLARE
 v employee id NUMBER := 122;
 v_new_salary employees.salary%TYPE := 5500; -- New salary value
BEGIN
 UPDATE employees
 SET salary = v_new_salary
 WHERE employee id = v employee id;
 IF SQL%ROWCOUNT > 0 THEN
 DBMS_OUTPUT.PUT_LINE('Salary updated for employee ID ' || v_employee_id);
 ELSE
 DBMS_OUTPUT.PUT_LINE('No employee found with ID ' || v_employee_id);
 END IF:
END;
PROGRAM 4
**PL/SQL block to create a procedure using the `IS [NOT] NULL` operator and show `AND`
operator returns `TRUE` if and only if both operands are `TRUE`.**
```sql
DECLARE
  v_value1 NUMBER := 10;
  v_value2 NUMBER := NULL;
BEGIN
  IF v_value1 IS NOT NULL AND v_value2 IS NOT NULL THEN
    DBMS_OUTPUT.PUT_LINE('Both values are NOT NULL');
  ELSE
    DBMS_OUTPUT.PUT_LINE('One or both values are NULL');
  END IF;
END;
```

```
### PROGRAM 5
**PL/SQL block to describe the usage of the `LIKE` operator, including wildcard characters and
escape character.**
```sal
DECLARE
 v_name employees.last_name%TYPE := 'Smi%';
BEGIN
 FOR rec IN (SELECT last name FROM employees WHERE last name LIKE v name
ESCAPE '\') LOOP
 DBMS_OUTPUT.PUT_LINE('Employee Name: ' | rec.last_name);
 END LOOP;
END:
PROGRAM 6
**PL/SQL program to arrange the numbers of two variables so that the smaller number is stored
in `num_small` and the larger in `num_large`.**
```sql
DECLARE
  num1 NUMBER := 45;
  num2 NUMBER := 30;
  num_small NUMBER;
  num_large NUMBER;
BEGIN
  IF num1 < num2 THEN
    num_small := num1;
    num_large := num2;
  ELSE
    num_small := num2;
    num_large := num1;
  END IF;
  DBMS_OUTPUT.PUT_LINE('Small Number: ' || num_small);
  DBMS_OUTPUT.PUT_LINE('Large Number: ' || num_large);
END;
```

```
### PROGRAM 7
**PL/SQL procedure to calculate the incentive on a target achieved and display a message
indicating whether the record was updated.**
CREATE OR REPLACE PROCEDURE calculate_incentive(p_employee_id NUMBER, p_target
NUMBER) AS
  v_incentive NUMBER;
BEGIN
  IF p target >= 1000 THEN
    v_incentive := p_target * 0.05; -- Example incentive calculation
    DBMS_OUTPUT_LINE('Incentive calculated: ' || v_incentive);
    DBMS OUTPUT.PUT LINE('Record updated.');
  ELSE
    DBMS_OUTPUT_LINE('Target not achieved. No
  update.'); END IF;
END calculate_incentive;
### PROGRAM 8
**PL/SQL procedure to calculate incentive achieved according to the specific sale limit.**
CREATE OR REPLACE PROCEDURE calculate_sales_incentive(p_sales_amount NUMBER)
  v_incentive NUMBER;
BEGIN
  IF p sales amount >= 5000 THEN
    v_incentive := p_sales_amount * 0.10;
  ELSIF p_sales_amount >= 3000 THEN
    v_incentive := p_sales_amount * 0.07;
  ELSE
    v incentive := p sales amount * 0.05;
  END IF;
  DBMS_OUTPUT.PUT_LINE('Incentive achieved: ' || v_incentive);
END calculate_sales_incentive;
/
```

These PL/SQL blocks cover a range of tasks from variable handling, control structures, and conditional checks, to defining and using procedures with parameters.