

**Exp11****PL/SQL PROGRAMS**

1 DECLARE

```
v_emp_id  NUMBER := 110;  
v_salary   EMPLOYEES.SALARY%TYPE;  
v_incentive NUMBER;
```

BEGIN

```
SELECT SALARY INTO v_salary  
FROM EMPLOYEES  
WHERE EMPLOYEE_ID = v_emp_id;
```

```
v_incentive := v_salary * 0.10;
```

```
DBMS_OUTPUT.PUT_LINE('Employee ID: ' || v_emp_id);  
DBMS_OUTPUT.PUT_LINE('Salary: ' || v_salary);  
DBMS_OUTPUT.PUT_LINE('Incentive (10%): ' || v_incentive);
```

EXCEPTION

```
WHEN NO_DATA_FOUND THEN
```

```
    DBMS_OUTPUT.PUT_LINE('Employee with ID ' || v_emp_id || ' not found.');
```

END;

/

2 DECLARE

```
"MyVar" NUMBER := 10; -- quoted identifier (case-sensitive)  
myvar  NUMBER := 20; -- unquoted identifier (case-insensitive)
```

BEGIN

```
    DBMS_OUTPUT.PUT_LINE("MyVar"); -- valid  
    DBMS_OUTPUT.PUT_LINE(MyVar); -- invalid case-insensitive reference to quoted identifier
```

EXCEPTION

```
WHEN OTHERS THEN
```

```
    DBMS_OUTPUT.PUT_LINE('Error: Invalid case-insensitive reference to quoted identifier.');
```

END;

/

```

3 DECLARE
  v_emp_id NUMBER := 122;
  v_salary EMPLOYEES.SALARY%TYPE;
BEGIN
  SELECT SALARY INTO v_salary
  FROM EMPLOYEES
  WHERE EMPLOYEE_ID = v_emp_id;

  v_salary := v_salary * 1.15; -- increase by 15%

  UPDATE EMPLOYEES
  SET SALARY = v_salary
  WHERE EMPLOYEE_ID = v_emp_id;

  DBMS_OUTPUT.PUT_LINE('Salary updated successfully for employee ' || v_emp_id);
  DBMS_OUTPUT.PUT_LINE('New Salary: ' || v_salary);

  COMMIT;
EXCEPTION
  WHEN NO_DATA_FOUND THEN
    DBMS_OUTPUT.PUT_LINE('Employee with ID ' || v_emp_id || ' not found.');
END;
/
4 CREATE OR REPLACE PROCEDURE check_nulls IS
  v_value1 NUMBER := NULL;
  v_value2 NUMBER := 10;
BEGIN
  IF v_value1 IS NULL AND v_value2 IS NOT NULL THEN
    DBMS_OUTPUT.PUT_LINE('Condition is TRUE because v_value1 IS NULL and v_value2 IS NOT NULL.');
  ELSE

```

```

    DBMS_OUTPUT.PUT_LINE('Condition is FALSE.');

END IF;

END;
/

-- Execute the procedure

BEGIN
    check_nulls;
END;
/

5 DECLARE
    v_name EMPLOYEES.LAST_NAME%TYPE;
BEGIN
    DBMS_OUTPUT.PUT_LINE('Employees whose last name starts with "S":');

    FOR rec IN (
        SELECT LAST_NAME FROM EMPLOYEES
        WHERE LAST_NAME LIKE 'S%'
    ) LOOP
        DBMS_OUTPUT.PUT_LINE(rec.LAST_NAME);
    END LOOP;

    DBMS_OUTPUT.PUT_LINE(CHR(10) || 'Employees whose last name contains "_" character:');
    FOR rec IN (
        SELECT LAST_NAME FROM EMPLOYEES
        WHERE LAST_NAME LIKE '%\_%' ESCAPE '\'
    ) LOOP
        DBMS_OUTPUT.PUT_LINE(rec.LAST_NAME);
    END LOOP;
END;
/

```