**CONTROLL STRUCTURE**

**Scenario 1:** The bank wants to apply a discount to loan interest rates for customers above 60 years old.

**Question:** Write a PL/SQL block that loops through all customers, checks their age, and if they are above 60, apply a 1% discount to their current loan interest rates.

**CODE**

DECLARE

    CURSOR c\_customers IS

        SELECT c.CustomerID, l.LoanID, l.InterestRate

        FROM Customers c

        JOIN Loans l ON c.CustomerID = l.CustomerID

        WHERE TRUNC(MONTHS\_BETWEEN(SYSDATE, c.DOB) / 12) > 60;

BEGIN

    FOR rec IN c\_customers LOOP

        UPDATE Loans

        SET InterestRate = rec.InterestRate - 1

        WHERE LoanID = rec.LoanID;

    END LOOP;

    COMMIT;

END;

**Scenario 2:** A customer can be promoted to VIP status based on their balance.

**Question:** Write a PL/SQL block that iterates through all customers and sets a flag IsVIP to TRUE for those with a balance over $10,000.

**CODE**

BEGIN

    FOR rec IN (SELECT CustomerID, Balance FROM Customers) LOOP

        IF rec.Balance > 10000 THEN

            UPDATE Customers

            SET IsVIP = 1

            WHERE CustomerID = rec.CustomerID;

        ELSE

            UPDATE Customers

            SET IsVIP = 0

            WHERE CustomerID = rec.CustomerID;

        END IF;

    END LOOP;

    COMMIT;

END;

**Scenario 3:** The bank wants to send reminders to customers whose loans are due within the next 30 days.

**Question:** Write a PL/SQL block that fetches all loans due in the next 30 days and prints a reminder message for each customer.

**CODE**

SET SERVEROUTPUT ON;

DECLARE

    CURSOR c\_loans IS

        SELECT l.LoanID, l.CustomerID, c.Name, l.EndDate

        FROM Loans l

        JOIN Customers c ON l.CustomerID = c.CustomerID

        WHERE l.EndDate BETWEEN SYSDATE AND  SYSDATE + 30;

BEGIN

    FOR rec IN c\_loans LOOP

        DBMS\_OUTPUT.PUT\_LINE('Reminder: Dear ' || rec.Name || ', your loan (ID: ' || rec.LoanID || ') is due on ' || TO\_CHAR(rec.EndDate, 'YYYY-MM-DD') || '.');

    END LOOP;

END;