**Exercise 1: Control Structures**

**CODE:**

**Scenario 1**:

**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.

BEGIN

FOR customer IN (SELECT customer\_id, age FROM customers) LOOP

IF customer.age > 60 THEN

UPDATE loans

SET interest\_rate = interest\_rate - 1

WHERE customer\_id = customer.customer\_id;

END IF;

END LOOP;

COMMIT;

END;

**Scenario 2:**

**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 cust IN (SELECT customer\_id, balance FROM customers) LOOP

IF cust.balance > 10000 THEN

UPDATE customers

SET IsVIP = 'TRUE'

WHERE customer\_id = cust.customer\_id;

END IF;

END LOOP;

COMMIT;

END;

**Scenario 3:**

**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:**

BEGIN

FOR loan\_rec IN (

SELECT l.loan\_id, c.name, l.due\_date

FROM loans l

JOIN customers c ON l.customer\_id = c.customer\_id

WHERE l.due\_date <= SYSDATE + 30

) LOOP

DBMS\_OUTPUT.PUT\_LINE(

'Reminder: Loan ID ' || loan\_rec.loan\_id ||

' for customer ' || loan\_rec.name ||

' is due on ' || TO\_CHAR(loan\_rec.due\_date, 'DD-MON-YYYY')

);

END LOOP;

END;