EX 1: CONTROL STRUCTURES

CREATE TABLE customers (

customer\_id NUMBER,

name VARCHAR2(50),

age NUMBER,

loan\_interest NUMBER,

balance NUMBER,

is\_vip VARCHAR2(5)

);

CREATE TABLE loans (

loan\_id NUMBER,

customer\_id NUMBER,

due\_date DATE

);

**Scenario 1: Apply 1% discount for age > 60**

BEGIN

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

IF cust.age > 60 THEN

UPDATE customers

SET loan\_interest = loan\_interest \* 0.99

WHERE customer\_id = cust.customer\_id;

END IF;

END LOOP;

COMMIT;

END;

**Scenario 2: Mark VIP if balance > 10000**

BEGIN

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

IF cust.balance > 10000 THEN

UPDATE customers

SET is\_vip = 'TRUE'

WHERE customer\_id = cust.customer\_id;

END IF;

END LOOP;

COMMIT;

END;

**Scenario 3: Reminder for loans due in next 30 days**

BEGIN

FOR loan\_rec IN (SELECT customer\_id, due\_date FROM loans) LOOP

IF loan\_rec.due\_date BETWEEN SYSDATE AND SYSDATE + 30 THEN

DBMS\_OUTPUT.PUT\_LINE('Reminder: Customer ID ' || loan\_rec.customer\_id ||

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

END IF;

END LOOP;

END;