**MODULE 3**

**Exercise 1: Control Structures**

**Program:**

BEGIN

FOR rec IN (SELECT c.CustomerID, l.LoanID, l.InterestRate, c.DOB

FROM Customers c

JOIN Loans l ON c.CustomerID = l.CustomerID)

LOOP

IF MONTHS\_BETWEEN(SYSDATE, rec.DOB) / 12 > 60 THEN

UPDATE Loans

SET InterestRate = InterestRate - 1

WHERE LoanID = rec.LoanID;

END IF;

END LOOP;

END;

/

ALTER TABLE Customers ADD IsVIP CHAR(1);

BEGIN

FOR rec IN (SELECT CustomerID, Balance FROM Customers)

LOOP

IF rec.Balance > 10000 THEN

UPDATE Customers

SET IsVIP = 'Y'

WHERE CustomerID = rec.CustomerID;

ELSE

UPDATE Customers

SET IsVIP = 'N'

WHERE CustomerID = rec.CustomerID;

END IF;

END LOOP;

END;

/

BEGIN

FOR rec IN (SELECT l.LoanID, c.Name, l.EndDate

FROM Loans l

JOIN Customers c ON c.CustomerID = l.CustomerID

WHERE l.EndDate <= SYSDATE + 30)

LOOP

DBMS\_OUTPUT.PUT\_LINE('Reminder: Loan ' || rec.LoanID || ' for ' || rec.Name || ' is due on ' || TO\_CHAR(rec.EndDate, 'DD-MON-YYYY'));

END LOOP;

END;

/

**OUTPUT:**

