**Exercise 1 : Control Structure**

**Scenario 1 :**

Code (Input) :-

BEGIN

FOR res IN (

SELECT

c.CustomerID,

l.LoanID,

l.InterestRate

FROM Loans l

JOIN Customers c ON l.CustomerID = c.CustomerID

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

)LOOP

UPDATE Loans

SET InterestRate = res.InterestRate - 1

WHERE LoanID = res.LoanID;

END LOOP;

END;

/

SELECT \* FROM Loans;

Output :-

A screenshot of a computer

AI-generated content may be incorrect.

**Scenario 2 :**

Code (Input) :-

ALTER TABLE Customers ADD IsVIP CHAR(1);

BEGIN

FOR cust IN (

SELECT CustomerID, Balance

FROM Customers

WHERE Balance > 10000

) LOOP

UPDATE Customers

SET IsVIP = 'Y'

WHERE CustomerID = cust.CustomerID;

DBMS\_OUTPUT.PUT\_LINE('Customer ID ' || cust.CustomerID || ' marked as VIP.');

END LOOP;

END;

/

SELECT \* FROM Customers WHERE IsVIP = 'Y';

Output :-

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**Scenario 3 :**

Code (Input) :-

BEGIN

FOR due\_loan IN (

SELECT

l.LoanID,

l.EndDate,

c.Name,

c.CustomerID

FROM Loans l

JOIN Customers c ON l.CustomerID = c.CustomerID

WHERE l.EndDate BETWEEN SYSDATE AND SYSDATE + 30

) LOOP

DBMS\_OUTPUT.PUT\_LINE('Reminder: Loan ID ' || due\_loan.LoanID ||

' for Customer "' || due\_loan.Name ||

'" (ID: ' || due\_loan.CustomerID ||

') is due on ' || TO\_CHAR(due\_loan.EndDate, 'DD-MON-YYYY'));

END LOOP;

END;

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Output :-

A screenshot of a computer error message

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