**Scenario 1: Calculate Age**

sql

CopyEdit

CREATE OR REPLACE FUNCTION CalculateAge (p\_dob DATE)

RETURN NUMBER IS

v\_age NUMBER;

BEGIN

SELECT FLOOR(MONTHS\_BETWEEN(SYSDATE, p\_dob) / 12) INTO v\_age FROM dual;

RETURN v\_age;

END CalculateAge;

/

**Expected Output**:

sql

CopyEdit

SELECT CalculateAge(DATE '1990-05-10') FROM dual;

Output:

plaintext

CopyEdit

35

**Scenario 2: Calculate Monthly Installment**

sql

CopyEdit

CREATE OR REPLACE FUNCTION CalculateMonthlyInstallment (

p\_loan\_amount NUMBER,

p\_interest\_rate NUMBER,

p\_loan\_duration\_years NUMBER

)

RETURN NUMBER IS

v\_monthly\_installment NUMBER;

v\_monthly\_rate NUMBER;

v\_duration\_months NUMBER;

BEGIN

v\_monthly\_rate := (p\_interest\_rate / 100) / 12;

v\_duration\_months := p\_loan\_duration\_years \* 12;

v\_monthly\_installment := (p\_loan\_amount \* v\_monthly\_rate) / (1 - POWER(1 + v\_monthly\_rate, -v\_duration\_months));

RETURN v\_monthly\_installment;

END CalculateMonthlyInstallment;

/

**Expected Output**:

sql

CopyEdit

SELECT CalculateMonthlyInstallment(10000, 5, 5) FROM dual;

Output:

plaintext

CopyEdit

188.71

**Scenario 3: Check Sufficient Balance**

sql

CopyEdit

CREATE OR REPLACE FUNCTION HasSufficientBalance (

p\_account\_id NUMBER,

p\_amount NUMBER

)

RETURN BOOLEAN IS

v\_balance NUMBER;

BEGIN

SELECT Balance INTO v\_balance

FROM Accounts

WHERE AccountID = p\_account\_id;

IF v\_balance >= p\_amount THEN

RETURN TRUE;

ELSE

RETURN FALSE;

END IF;

EXCEPTION

WHEN NO\_DATA\_FOUND THEN

RETURN FALSE;

WHEN OTHERS THEN

RETURN FALSE;

END HasSufficientBalance;

/

**Expected Output**:

sql

CopyEdit

SELECT HasSufficientBalance(101, 500) FROM dual;

Output:

plaintext

CopyEdit

TRUE