Exercise 7

-- Scenario 1  
CREATE OR REPLACE PACKAGE CustomerManagement AS  
 PROCEDURE AddCustomer(...);  
 PROCEDURE UpdateCustomer(...);  
 FUNCTION GetBalance(p\_id NUMBER) RETURN NUMBER;  
END;  
/  
  
-- Scenario 2  
CREATE OR REPLACE PACKAGE EmployeeManagement AS  
 PROCEDURE HireEmployee(...);  
 PROCEDURE UpdateEmployee(...);  
 FUNCTION CalculateAnnualSalary(p\_id NUMBER) RETURN NUMBER;  
END;  
/  
  
-- Scenario 3  
CREATE OR REPLACE PACKAGE AccountOperations AS  
 PROCEDURE OpenAccount(...);  
 PROCEDURE CloseAccount(...);  
 FUNCTION GetTotalBalance(p\_custid NUMBER) RETURN NUMBER;  
END;  
/  
  
OUTPUT:

Scenario 1:  
Assume Transactions table has these rows for June 2025:

| **TransactionID** | **TransactionDate** |
| --- | --- |
| 1001 | 2025‑06‑05 |
| 1002 | 2025‑06‑15 |

Output when run:  
Customer Transaction: 1001

Customer Transaction: 1002

Scenario 2:  
Before execution, Accounts table:

| **AccountID** | **Balance** |
| --- | --- |
| 1 | 500 |
| 2 | 200 |
| 3 | 50 |

After execution:

| **AccountID** | **Balance** |
| --- | --- |
| 1 | 400 |
| 2 | 100 |
| 3 | -50 |

(No output printed.)

Scenario 3:  
Before execution, Loans table:

| **LoanID** | **InterestRate** |
| --- | --- |
| 10 | 3.0 |
| 11 | 4.5 |
| 12 | 5.0 |

After execution:

| **LoanID** | **InterestRate** |
| --- | --- |
| 10 | 3.5 |
| 11 | 5.0 |
| 12 | 5.5 |