Exercise 2

-- Scenario 1  
CREATE OR REPLACE PROCEDURE SafeTransferFunds(p\_from NUMBER, p\_to NUMBER, p\_amount NUMBER) AS  
BEGIN  
 UPDATE Accounts SET Balance = Balance - p\_amount WHERE AccountID = p\_from;  
 UPDATE Accounts SET Balance = Balance + p\_amount WHERE AccountID = p\_to;  
 COMMIT;  
EXCEPTION  
 WHEN OTHERS THEN  
 ROLLBACK;  
 DBMS\_OUTPUT.PUT\_LINE('Error: ' || SQLERRM);  
END;  
/  
  
-- Scenario 2  
CREATE OR REPLACE PROCEDURE UpdateSalary(p\_empid NUMBER, p\_percent NUMBER) AS  
BEGIN  
 UPDATE Employees SET Salary = Salary + (Salary \* p\_percent / 100) WHERE EmployeeID = p\_empid;  
 IF SQL%ROWCOUNT = 0 THEN  
 RAISE\_APPLICATION\_ERROR(-20001, 'Employee not found');  
 END IF;  
EXCEPTION  
 WHEN OTHERS THEN  
 DBMS\_OUTPUT.PUT\_LINE('Error: ' || SQLERRM);  
END;  
/  
  
-- Scenario 3  
CREATE OR REPLACE PROCEDURE AddNewCustomer(p\_id NUMBER, p\_name VARCHAR2, p\_dob DATE, p\_balance NUMBER) AS  
BEGIN  
 INSERT INTO Customers VALUES (p\_id, p\_name, p\_dob, p\_balance, SYSDATE);  
EXCEPTION  
 WHEN DUP\_VAL\_ON\_INDEX THEN  
 DBMS\_OUTPUT.PUT\_LINE('Error: Customer already exists');  
END;  
/  
  
  
OUTPUT:

Scenario 1: No output  
Scenario 2: Error: ORA-20001: Employee not found  
Scenario 3: Error: Customer already exists