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BEGIN InventoryManagementSystem

    DECLARE inventory AS DICTIONARY

    FUNCTION add_item(name, quantity, price_per_unit)
        TRY
            IF name EXISTS IN inventory THEN
                RAISE Exception("Error:")
            ELSE
                ADD {name: {quantity: quantity, price_per_unit: price_per_unit}} TO inventory
                PRINT "Item added successfully."
            END IF
        CATCH Exception AS e
            PRINT "Error: Item already exists" + e.message
        END FUNCTION

    FUNCTION update_quantity(name, quantity)
        TRY
            IF name NOT EXISTS IN inventory THEN
                RAISE Exception("Error")
            ELSE
                inventory[name]["quantity"] = inventory[name]["quantity"] + quantity
                PRINT "Quantity updated successfully."
            END IF
        CATCH Exception AS e
            PRINT "Error: Item Not exists" + e.message
        END FUNCTION

    FUNCTION generate_report()
        TRY
            IF inventory IS EMPTY THEN
                RAISE Exception("Error")
            
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ELSE
    PRINT "Inventory Report:"
    FOR EACH item IN inventory
        PRINT "Name: " + item, "Quantity: " + inventory[item]["quantity"], "Price per
Unit: " + inventory[item]["price_per_unit"]
    END FOR
END IF
CATCH Exception AS e
    PRINT "Error: Inventory is empty" + e.message
END FUNCTION

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WHILE TRUE
    PRINT "Inventory Management System"
    PRINT "1. Add Item"
    PRINT "2. Update Quantity"
    PRINT "3. Generate Report"
    PRINT "4. Exit"
    INPUT choice

    IF choice = "1" THEN
        INPUT name
        INPUT quantity
        INPUT price_per_unit
        CALL add_item(name, quantity, price_per_unit)
    ELSE IF choice = "2" THEN
        INPUT name
        INPUT quantity
        CALL update_quantity(name, quantity)
    ELSE IF choice = "3" THEN
        CALL generate_report()
    ELSE IF choice = "4" THEN

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        PRINT "Exiting the program. bye! bye!"  
        BREAK  
    ELSE  
        PRINT "Invalid choice. Please try again."  
    END IF  
END WHILE  
END InventoryManagementSystem
```