

BankAccount.swift - Swift Code (Large Font)

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// MARK: - BankAccount Structure
// Represents a simple bank account with deposit, withdrawal, and bal

struct BankAccount {

    // MARK: - Private Property
    /// Stores the current balance of the bank account.
    private var balance: Double

    // MARK: - Initializer
    /// Creates a new bank account with an initial balance.
    /// - Parameter initialBalance: The starting amount in the account
    init(initialBalance: Double) {
        self.balance = initialBalance
    }

    // MARK: - Deposit Method
    /// Adds a specified amount to the account balance.
    /// - Parameter amount: The amount to deposit (must be positive).
    mutating func deposit(amount: Double) {
        guard amount > 0 else {
            print("■ Deposit amount must be positive.")
            return
        }
        balance += amount
        print("■ Deposited \(amount). New balance: \(balance).")
    }

    // MARK: - Withdraw Method
    /// Withdraws a specified amount if sufficient funds are available.
    /// - Parameter amount: The amount to withdraw (must not exceed balance)
    mutating func withdraw(amount: Double) {
        guard amount > 0 else {
            print("■ Withdrawal amount must be positive.")
            return
        }
        guard amount <= balance else {
            print("■■ Insufficient funds. Current balance: \(balance)")
            return
        }
    }
}
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    }
    balance -= amount
    print("■ Withdrew \$(amount). Remaining balance: \$(balance).")
}

// MARK: - Balance Inquiry
/// Returns the current account balance.
func getBalance() -> Double {
    return balance
}
}

// MARK: - Example Usage
var myAccount = BankAccount(initialBalance: 100.0)
myAccount.deposit(amount: 50.0)          // ■ Deposited 50.0. New balance
myAccount.withdraw(amount: 30.0)         // ■ Withdrew 30.0. Remaining ba
print("■ Current balance: \$(myAccount.getBalance())") // ■ Current ba

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