Problem 1: Order a hotel online before a trip

Objects and behaviors:

Computer:
    Data:
    Behaviors: startUp, connectToInternet

Internet:
    Data: Hotelsclick, Priceline
        :Collection of Websites
    Behavior: searchForElectricityWebsites

Electricity Website:
    Data: URL, Product[] products, BankAccount
    Behaviors: search, filter, display, sort, compare

Consumer:
    Data: Name, Phone, roomPreferance, tripLocation, hotelCheckInDate, hotelCheckOutDate
    Behaviors: startUpComputer, search, filter, reviews, return, cancel, sort, compare, book, contactWithHotels

Hotel:
    Data: Name, Address, Amenities, guestRating, Price, roomDetails
        : collection of room details
    Behaviors: orderConfirmation, reserveRoom

Credit Card:
    Data: Name, bankName, cardNumber, address, securityCode, expiry
    Behavior:

Bank:
    Data:
    Behavior: authorizeTransaction

Sequence of invoking behaviors on objects

OderAHotelOnLine
Consumer kai;
Internet internet;
ElectricityWebsite Hotelsclick;
CreditCard card;
Bank BankOfAmerica;
kai.startUpComputer -> pin: startUpComputer
while internet.isAvailable
    kai.searchInInternet -> internet.question: collectionOfWebsites
    kai.findDesirableWebsiteInAPage -> internet.question.pageNumber : website
    Hotelsclick = website
    if Hotelsclick is not empty
        Hotelsclick.searchForHotel -> Location: collection of hotels
        kai.searchOfCheckInDate   and   checkOutdate   ->   bookAHotel: hotelConfirmation
        kai.orderHotel -> creditCard, phone
    else
        pageNumber = pageNumber + 1
    end
    bank.authorizeTransaction