

## **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, roomPreference, 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