Question 1: Ordering a hotel online before a trip

Objects and Behaviors:

Accommodation:

Data: destination, check\_in\_date,check\_out\_date, guests

Behavior

Guest:

Data: name, ID, phone,card\_number

Behavior: search, book,pay,review,cancel

Website

Data: name, URL

Behavior: search, sort,compare,display,place\_order

Hotel:

Data: name, adress,room,price

Card:

Data: card\_number, name,address

Behavior

Bank

Data: name

Behavior: authorize

Sequence of invoking Objects with Behavior

Guest Tom

Accommodation Sea

Website exp

Hotel hotel

Card visa

Bank boa

bookConfirmation response

Tom.searchWebsite -> website: respond

If website.isAvailable

Tom.searchByAccommodation ->exp.searchHotel, Collections of hotels:hotel

Loop

if Tom.findHotel -> hotel,website:respond

if hotel.isAvailable

Tom.bookHotel -> exp:respond

If (Tom.finishBook):

Tom.pay -> exp,card,boa:respond

If ( boa.authorize is false)

Tom.failBook -> exp:respond

else

exp.bookConfirmation

Response = bookConfiramtion

end

else

Tom.failBook ->exp:respond

end

else

Tom.failBook -> exp:respond

end

else

break

end

end