Q1. Order a hotel online before a trip Ans: Identify Objects and Behaviors: Thing (Object): Information (Data): Services (Behaviors): Things: Customer (Online Booker): Data: Name, PhoneNumber, Address Behaviors: search, compare, booking, cancel Internet Data: Hotels.com, Airbnb, Expedia, Trivago, Agoda, Hotelscombined, Booking.com , HotelOfficialWebsite: Collection of Websites Behaviors: searchForHotelBookingWebsites HotelBookingWebsite Data: Packages, DiscountInfo, RecommendedDestinations, PriceCompare, StarRating, GuestRating, PaymentMethods Behaviors: search, compare, sort, present, bookHotelRoom Hotels Data: Price, Convenience, Comfort, Distance, BreakfastServed, WifiAccess CreditCard Data: Name, CardNumber, CardCompany, ExpirationDate, SecurityCode CreditCardCompany Behavior: authorizeTransaction

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Sequence of invoking behaviors on Objects:
BookHotelsOnline:
   Customer Jane,
   Internet internet,
   HotelBookingWebsite expedia,
   Hotels characteristics,
   CreditCard card,
   CreditCardCompany visa
   BookingConfirmation orderConfirmation
   if Internet.hasAccess
          jane.searchOnInternet -> internet, question: Collection of HotelBookingWebsite
          //jane.findBookingWebsiteInFirstPage -> Collection of Websites: website
          pageNumber = 1;
          Loop
                 if jane.findsNothing
                     break
                 end
                 jane.findHotelWebsiteInAPage -> internet, question, page Number: website
                 expedia = website;
                 If expedia is disconnect
                      break
                 else
                      pageNumber = pageNumber + 1
                  end
           End
           Expedia = website
           if expedia is not disconnect or expedia != null
                 Expedia.searchForHotels -> price, convenience, distance, wifiAccess:
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Choice of Hotel

characteristics = hotels

jane.bookingHotels -> characteristics, creditCardNumber, name,

phoneNumber, expedia: BookingConfirmation

order Confirmation = booking Confirmation

else

jane.cantOrderHotels

else

jane. search For Hotels On Internet Later