Problem 2:Design an app for calling taxis (e.g. Uber)

Objects and Behaviors:

Customer:

      Data: Name, Phone, Address, Destination

      Behavior: register, signIn, rating, call, openApp,hasAccount,findDriver, cancelOrder, pay

Driver:

      Data: Name, Phone, CarType, CarNumber, CarColor

      Behavior: sendTexts, call, rating, respond, startTrip, endTrip, cancelOrder, receiveIncome

Application:

      Data: Name

      Behavior: verify, findRoute, payDriver

Sequence of Flow - Invoke Objects with Behaviors

CallingTaxis:

      Customer yue

      Driver driver

      Application app

      yue.openApp-> requestion to app

      Loop

        If yue.hasAccount is False

            yue.register

            yue.signIn-> app:verify

          End

        Else

            yue.signIn->app:verify

          End

        If app.verify is True

           yue.findDriver->app,driver:respond

              If driver.respond is True

app.buildOrder->driver, yue: connection

    If connection is True

    app.findRoute->

        If driver.wantToSendTexts

            driver.SendText

            End

        If driver.wantToCall

            driver.call

            If driver.wantToEndCall

                driver.endCall

                End

            End

    driver.startTrip->requestion to app

    driver.endTrip-> requestion to app

    customer.pay-> app:verify

    If app.verify is true

        app.payDriver

        driver.receiveIncome

        End

    customer.rating-> requestion to app

    driver.rating-> requestion to app

    End

End

End