Problem: Design an app for calling taxis

Identify Objects and Behaviors:

Things:

Passenger:

Data: Name, Phone, Location, Destination,

Behaviors: output, confirmTaxis, cancelTaxis, finishRide

Internet:

Behaviors: connectToApp

App:

Data: taxis, address

Behaviors: searchTaxis, compareTaxis, estimatePrice,

placeOrder, cancelOrder, payTaxis

Taxis:

Data: Location, Number, Price

Behaviors: inputInfo, acceptOrder, confirmPrice

CreditCard

Data: Number, name, company, expiry, security code

Behavior:

CreditCardCompany

Behavior: authorizeTransaction

Sequence of invoking behaviors on Objects:

```
Design an app for calling taxis
_____
Passenger sookie
Internet internet
App app
Taxis taxis
CreditCard card
CreditcardCompany visa
-----program-----
if internet.isAvailable {
      internet.connectToApp()
      sookie.output-> Name, Phone, Location, Destination
      int i=0
      app.searchTaxis()
      taxis.inputInfo
      if (taxis.acceptOrder){
             i++
      else {
```

```
i=i
       }
       if (i==0){
              return Taxis.NONE;
       }
       if ( i>0){
              app.compareTaxis-> taxis, address, price
              return Taxis.no123
              app.estimatePrice-> no123
              return Taxis.Price
       }
       If( sookie.cofirmTaxis){
              app.placeOrder
       }
       else{
              app.cancelOrder
       }
}
else{
       internet.\ connect To App After AW hile Back
}
```

```
if sookie.finishRide{
    taxi.confirmPrice
    app.payTaxis->card
    visa.authorizeTransaction()
}
```