Jinwoo Kim
OOSE Assignment2
Public Transport Ticketing
Passenger State Chart

-Assumption-

1. GoodStanding >= 5
2. 0 <= InDebt < 5
3. Cancelled < 0

Even though accountSaving is "Cancelled" status, passenger still can recharge it.
The status name is just a name.
"Cancelled" is just showing customer that ' you are in need to charge your account
as soon as possible as a warning'.

start

rechargeSaving() [passenger.getAccountSaving() >= 5]
/ print output
1. passenger.getName() + "'s account has been recharged with $" + $inputAmount
2. passenger.getName() + "s current account balance is $" + passenger.getAccountSaving()
3. "Bus: Checking passenger account status for " + passenger.getName() + " " + passenger.getAccountStatus()
4. "Train: Checking passenger account status for " + passenger.getName() + " " + passenger.getAccountStatus()
.
In this case, passenger.getName() will be "Josh" or "Mary" and
passenger.getAccountStatus() will be "Good Standing" and
$inputAmount is user input.

GoodStanding

InDebt

Cancelled

passengerRidesVehicle() [passenger.getAccountSaving() < 5]
/ print output
1. " Fare of " + $fare + " deducted from " + passenger.getName() + "'s account"
2. "Current " + passenger.getName() + " account balance is $" + passenger.getAccountSaving
3. "Bus: Checking passenger account status for " + passenger.getName() + " " + passenger.getAccountStatus()
4. "Train: Checking passenger account status for " + passenger.getName() + " " + passenger.getAccountStatus()
.
In this case, passenger.getName() will be "Josh" or "Mary" and
passenger.getAccountStatus() will be "In Debt" and
$fare is fixed amount as a 3

passengerRidesVehicle() [passenger.getAccountSaving() < 0]
/ print output
1. " Fare of " + $fare + " deducted from " + passenger.getName() + "'s account"
2. "Current " + passenger.getName() + " account balance is $" + passenger.getAccountSaving
3. "Bus: Checking passenger account status for " + passenger.getName() + " " + passenger.getAccountStatus()
4. "Train: Checking passenger account status for " + passenger.getName() + " " + passenger.getAccountStatus()
.
In this case, passenger.getName() will be "Josh" or "Mary" and
passenger.getAccountStatus() will be "Cancelled" and
$fare is fixed amount as a 3

rechargeSaving() [passenger.getAccountSaving() < 5 && passenger.getAccountSaving >= 0]
/ print output
1. passenger.getName() + "'s account has been recharged with $" + $inputAmount
2. passenger.getName() + "s current account balance is $" + passenger.getAccountSaving()
3. "Bus: Checking passenger account status for " + passenger.getName() + " " + passenger.getAccountStatus()
4. "Train: Checking passenger account status for " + passenger.getName() + " " + passenger.getAccountStatus()
.
In this case, passenger.getName() will be "Josh" or "Mary" and
passenger.getAccountStatus() will be "In Debt" and
$inputAmount is user input.