Class Description: SubwayTrain Class

Data:

Name:Type: Description:

passengerAmount int Current number of passengers

maxCapacity int Max number of passengers on train.

currentStation int Station train is currently at

destStation int Station train is going to

maxStation int Maximum number of stations

ranNumGenerator Random Java object to generate

random numbers

Methods:

Name: Type: Parameters: Description:

SubwayTrain None maxCp use to set maxCapacity

currentSt use to set currentStation

maxSt use to set maxStation

set destStation = currentStation

set passengerAmount = 0

getPassenger int none returns PassengerAmount

getMaxCapacity int none returns maxCapacity

getCurrentStation int none returns currentStation

getDestStation int none returns destStation

getMaxStation int none returns maxStation

checkAllSettings void none prints Current Train Object Settings

onPassenger void none loads random amount of passengers

onto train object but not above max

capacity

onPassenger void percentPassengerIncrease pass in percentage of the passenger increase,

calculates and loads but also checks for

overloading train

offPassenger void none unloads random amount of passengers

off of train object but not below zero

loadFromStation void fromStation object reduces number of passengersWaiting,

sets passenger amount with

passengersOnTrain.

unloadAll void fromStation Object unloads all passengers on the train,

checks how many passengers are

remaining at the station.

moveTrain void destSt moves train to destStation, loads from

station, offloads train until all

passengers waiting have reached there

destination

getRanNum int maxRan generates a random number between 0

and the integer passed in

Class Description: TrainStation Class

Data:

Name:Type: Description:

passengersWaiting int current number of passengers waiting at station

passengersOnTrain int current number of passengers to load onto train

object

Methods:

Name: Type: Parameters: Description:

TrainStation none passWaiting Use to set the number of passengers

waiting at the station

getPassengersWaiting int none returns current number of passengers

waiting at the station

getPassengersOnTrain int none returns number of passengers currently

on train

reduceNumberWaiting void reduceAmount reduces number of people waiting at the

current station. Sets passengersWaiting

and passengersOnTrain