Class Description: SubwayTrain Class

Data:

Name:Type: Description:

passengerAmount int Current number of passengers

maxCapacity int Max number of pax on train.

currentStation int Station train is currently at

destStation int Station train is going to

maxStation int Maximum number of stations

repairChance int determines if repairs need to be made at the current

stop

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

moveTrain Void destSt Moves train to a new station, onloads,

offloads, checks for chance to load 15% more passengers because of an equipment failure

getRanNum int maxRan generates a random number between 0 and

the integer passed in