

CONTRACT CO1: displayTripsMenu

Operation:	displayTripsMenu()
Cross References:	none
Preconditions:	<ul style="list-style-type: none">- Connected to the Console
Postconditions:	<ul style="list-style-type: none">- Input prompts are displayed

CONTRACT CO2: getTrips

Operation:	getTrips(lastName, id)
Cross References:	none
Preconditions:	<ul style="list-style-type: none">- Connected to the Console
Postconditions:	<ul style="list-style-type: none">- Client trips are displayed

CONTRACT CO2: displayConnectionsMenu

Operation:	displayConnectionsMenu()
Cross References:	none
Preconditions:	<ul style="list-style-type: none">- Connected to the Console
Postconditions:	<ul style="list-style-type: none">- Connections are displayed- Connection c is created

CONTRACT CO3: create ConnectionsCatalogue

Operation:	create ConnectionsCatalogue(startCity, endCity)
Cross References:	none
Preconditions:	<ul style="list-style-type: none">- Connected to the Console- startCity and endCity are valid cities
Postconditions:	<ul style="list-style-type: none">- ConnectionsCatalogue instance cc is created- TrainConnection instance tc is created for every possible connection- All tc instances associated with TrainRoute that populate it- All tc instances associated with cc

CONTRACT CO4: sortBySecondClassRate

Operation:	sortBySecondClassRate()
Cross References:	none

Preconditions:	- TrainConnections have been found
Postconditions:	- ConnectionsCatalogue.connections was sorted

CONTRACT CO5: sortByFirstClassRate

Operation:	sortByFirstClassRate()
Cross References:	none
Preconditions:	- TrainConnections have been found
Postconditions:	- ConnectionsCatalogue.connections was sorted

CONTRACT CO6: sortByDuration

Operation:	sortByDuration()
Cross References:	none
Preconditions:	- TrainConnections have been found
Postconditions:	- ConnectionsCatalogue.connections was sorted

CONTRACT CO7: bookTripMenu

Operation:	bookTripMenu(connection)
Cross References:	none
Preconditions:	- connection is a valid TrainConnection
Postconditions:	- Trip instance trip is created - connection is associated with trip - trip is associated with TripCatalogue

CONTRACT CO8: addReservation

Operation:	addReservation(firstName, lastName, age, passengerID)
Cross References:	none
Preconditions:	- A Trip instance trip has been created

- trip has an associated TrainConnection
- firstName, lastName, age, passengerID are all valid

Postconditions:

- A Client instance client is created
- client is associated with trip

CONTRACT CO9: exitProgram

Operation:	exitProgram()
Cross References:	none
Preconditions:	Connected to the Console
Postconditions:	Program exited