Programming II Lab

Term 2 (2014-15)SESSION 4

Working with association

The focus of this lab session is to learn how to work with associations involving different cardinality.

Consider the following classes (only direct attributes / methods are shown):

Ticket	Passenger
PNR number – string	pName – string
source – string	age – int
destination - string	gender – char
Ticket(TrainRun *, source, dest);	Passenger(name,age,gender)
addPassenger(string showPassenger()
name, age,	
gender,coach,seat_number);	
printTicket();	

TrainRun	Reservation	
trainNumber - string	coach – string	
Source – string	seat number – int	
destination – string		
printReservationChart()	string showReservation()	

Tasks to be performed

- 1. Add additional data members for the purpose of capturing the relationship between the above classes
- 2. Implement the above classes / methods
- 3. Integrate your classes with session4_train_test.cc (uploaded in LMS).

Sample output of Ticket::printTicket() method:

Train Number: XXXX	Train Source: XXXXX	Train Dest: XXXXX		
PNR: XXXXX Ticket Source: XXXXX	Date of Journey: XXXX Ticket Destination: XXXXXX			
Passenger List	Name	Age	Gender	
1	XXXXX	XXX	Χ	
2	XXXXX	XXX	Χ	

continued....

Sample output of Train::printReservationChart() method (coach-wise output):

Train Number: XXXX	Train Source: XXXXX	Train Dest: XXXXX		
Coach: XX	Date of Journey: XXXX			
PNR	Name	Age	Gender	Seat Number
XXXXX	XXXXX	XXX	Χ	XX
xxxxx	XXXXX	XXX	Χ	XX

What to submit

Create a zip file containing the following files upload the following files:

- 1. Ticket.h / Ticket.cc
- 2. Passenger.h / Passenger.cc
- 3. TrainRun.h / TrainRun.cc
- 4. Reservation.h / Reservation.cc

Name the zipfile as **session4-rollno.zip**