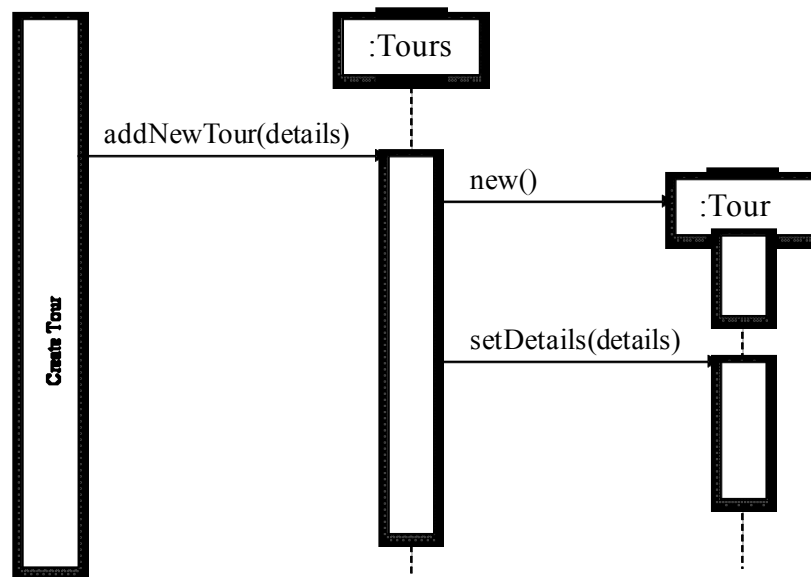


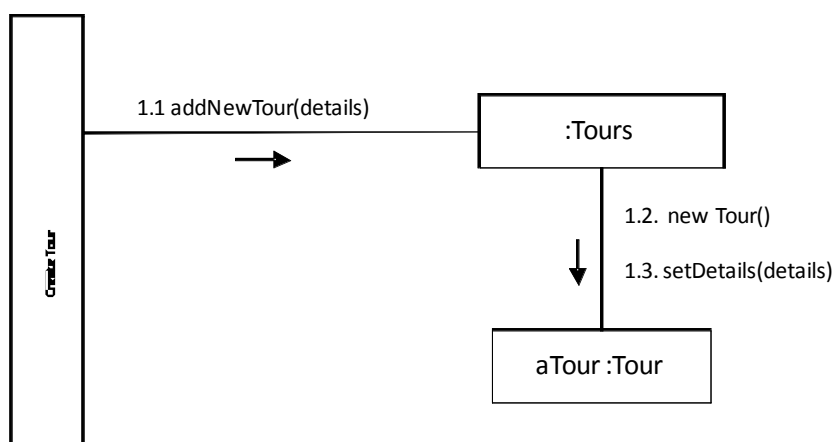
Sequence and Communication Diagrams

Sample Solutions

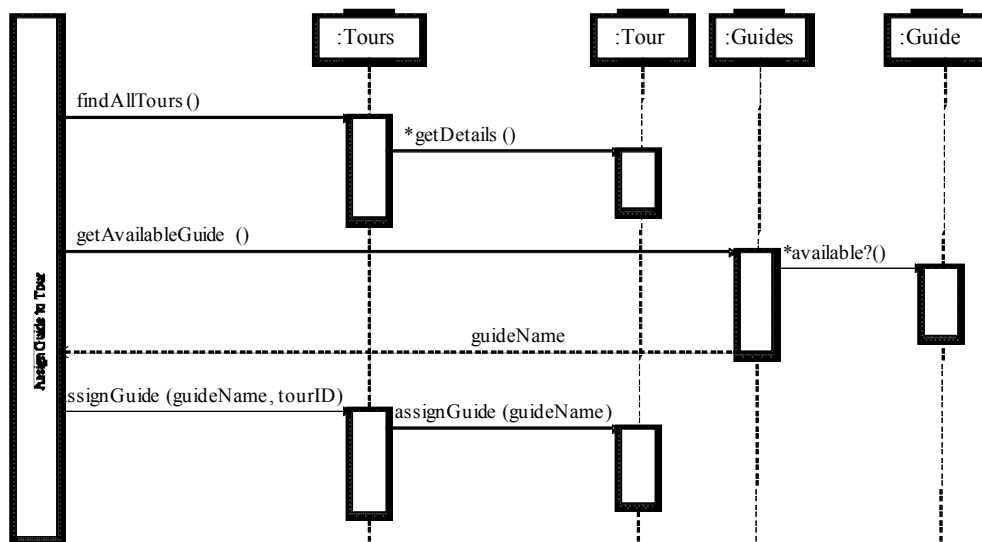
Sequence and Communication Diagrams – *Create Tour*



The new Tour instance (:Tour) is created from :Tours which means that the identifier of the new Tour object can be added into the access data structure that is maintained within Tours. The method addNewTour(details) should be added to the class Tours in the class diagram. Instead of using individual setAttribute() methods, a new method setDetails() is defined within Tour to add date, time and number of visitors for the tour in one operation.



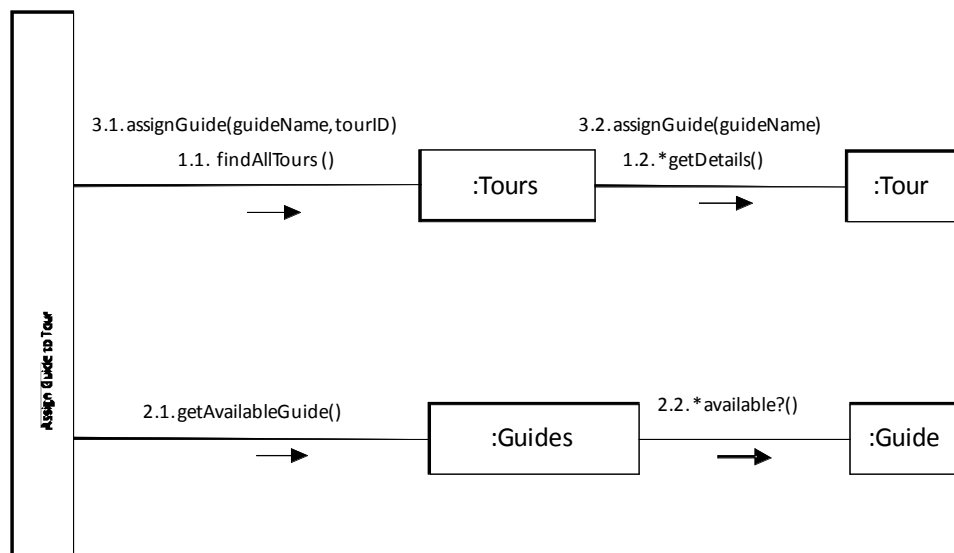
Sequence and Communication Diagrams – *Assign Guide to Tour*



The method findAllTours() returns details of all the current tours and the user selects one of these. For this exercise we assumed that there was at least one guide available and so the getAvailableGuide() method will return the name of the first available guide.

We could have implemented a method findAllAvailableGuides() and returned a list of names of all available guides for the user to select one for the tour.

The class diagram needs to be extended by adding the methods findAllTours() and assignGuide() to the class Tours and the method getAvailableGuide() to the class Guides.



Disclaimer – as usual, it should be noted that these are possible solutions (hopefully good ones!) not the definitive solutions.