



# Laboratory Report

## Experiment No - 08

Batch -

Date of Experiment: \_\_\_\_\_

Date of Submission: \_\_\_\_\_

### Title:

Develop Sequence and Collaboration diagram for the project

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### Evaluation:

1) Attendance [2] \_\_\_\_\_

2) Lab Performance [2] \_\_\_\_\_

3) Oral [1] \_\_\_\_\_

Overall Marks [5] \_\_\_\_\_

**Subject In-Charge**

**Experiment No: -08**

**TITLE:** Develop Sequence and Collaboration diagram for the project

**PREREQUISITE:**

1. Concepts of Object Oriented Programming & Methodology.
2. Knowledge of developing applications with front end & back end connectivity

**HARDWARE CONFIGURATION / KIT:**

Sr. No	Minimum Hardware Configuration	
1	Processor	800MHz Intel Pentium III or above versions
2	RAM	512 MB
3	HDD	1.5 GB of free disk space

**SOFTWARE CONFIGURATION:**

Sr. No	Minimum Software Configuration	
1	Operating System	Microsoft Windows Vista/7 or above versions
2	Editor	
3	Software	

**THEORY: -**

▪ **Sequence Diagram**

The main purpose of a sequence diagram is to define event sequences that result in some desired outcome. The focus is less on messages themselves and more on the order in which messages occur; nevertheless, most sequence diagrams will communicate what messages are sent between a system's objects as well as the order in which they occur. The diagram conveys this information along the horizontal and vertical dimensions: the vertical dimension shows, top down, the time sequence of messages/calls as they occur, and the horizontal dimension shows, left to right, the object instances that the messages are sent to.

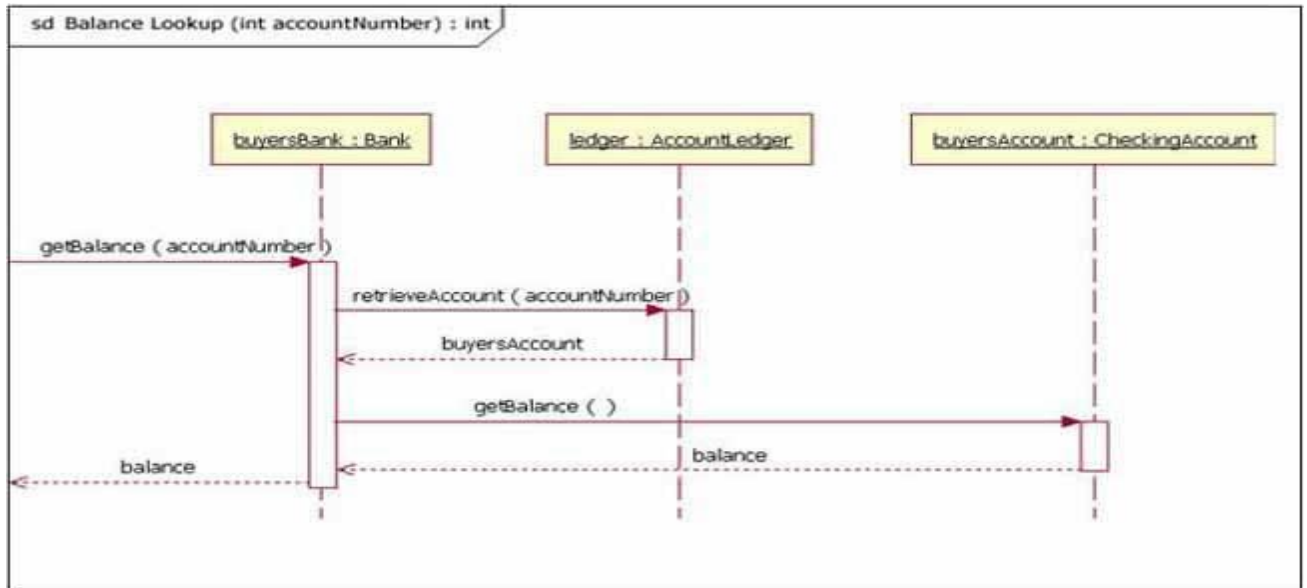
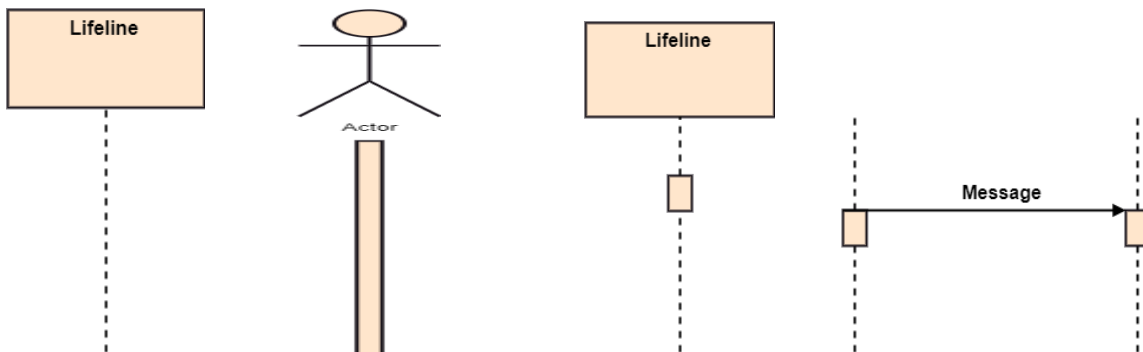
***Purpose of a Sequence Diagram***

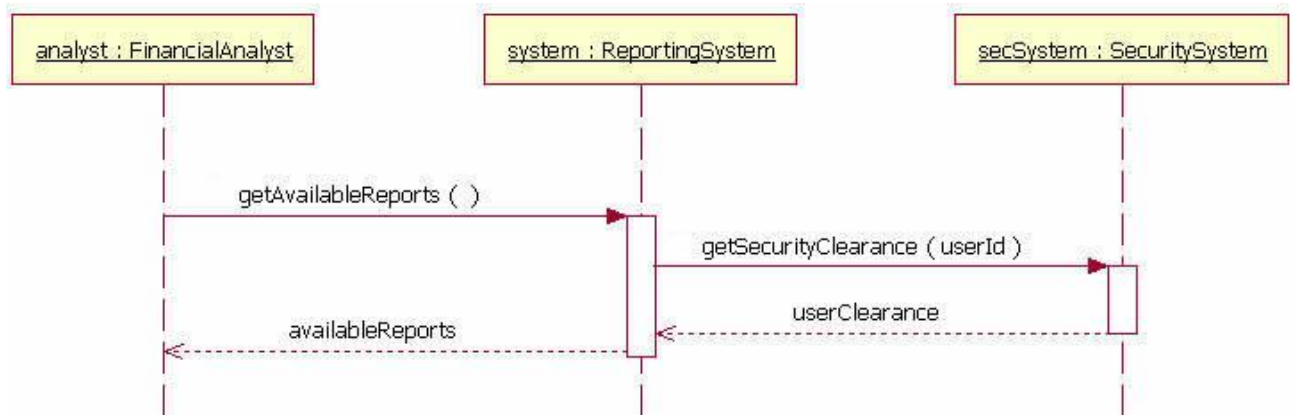
To model high-level interaction among active objects within a system.

To model interaction among objects inside a collaboration realizing a use case.

It either models generic interactions or some certain instances of interaction

## Notations

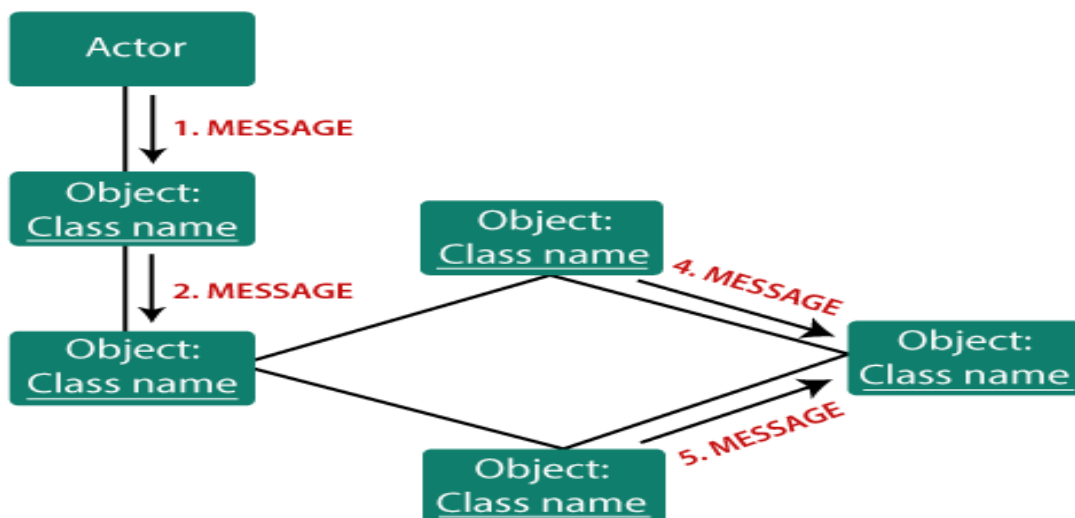




### ▪ Collaboration diagram

The collaboration diagram is used to show the relationship between the objects in a system. Both the sequence and the collaboration diagrams represent the same information but differently. Instead of showing the flow of messages, it depicts the architecture of the object residing in the system as it is based on object-oriented programming. An object consists of several features. Multiple objects present in the system are connected to each other. The collaboration diagram, which is also known as a communication diagram, is used to portray the object's architecture in the system.

### Components of a collaboration diagram



**Example:**