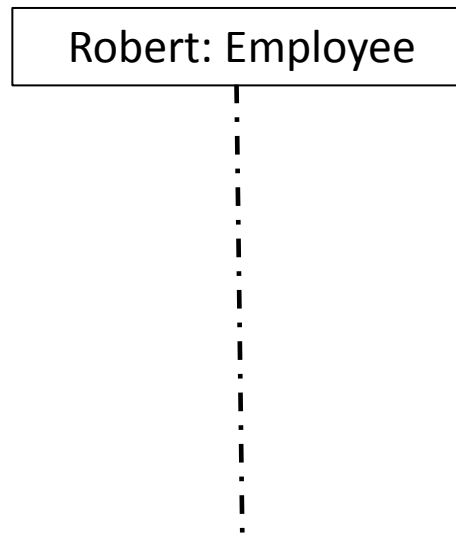# UML Sequence Diagram

UML Sequence Diagrams

- A **sequence diagram** is the most commonly used **interaction** diagram.

  - An interaction diagram is used to show the **interactive behavior** of a system

- depicts interaction between objects in a sequential order i.e. the order in which these interactions take place.

- widely used by businessmen and software developers to document and understand requirements for new and existing systems.

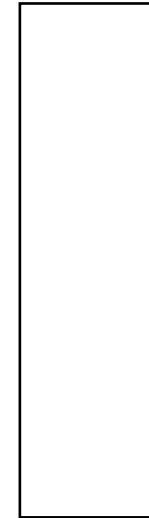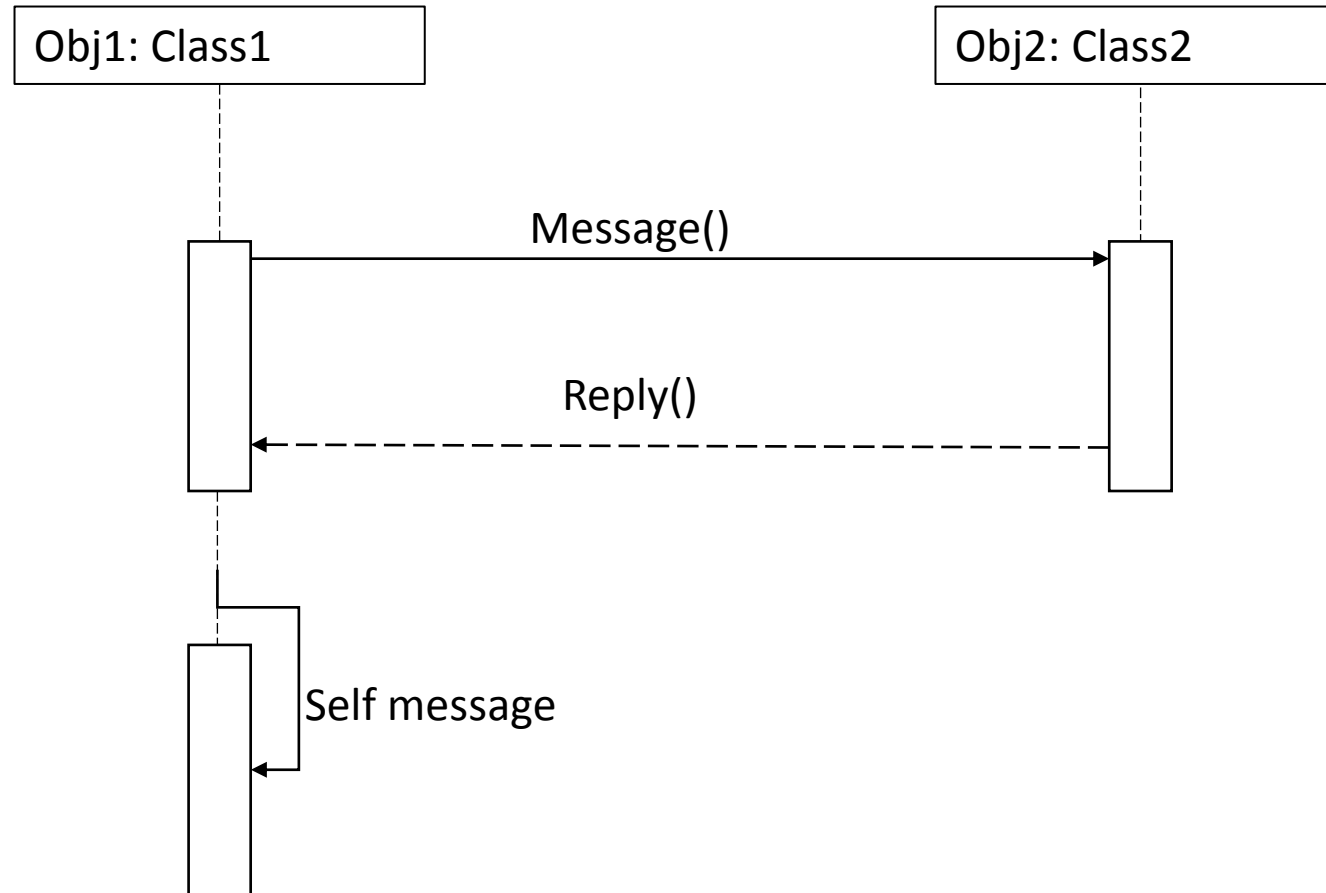# UML Sequence Diagrams: Notations
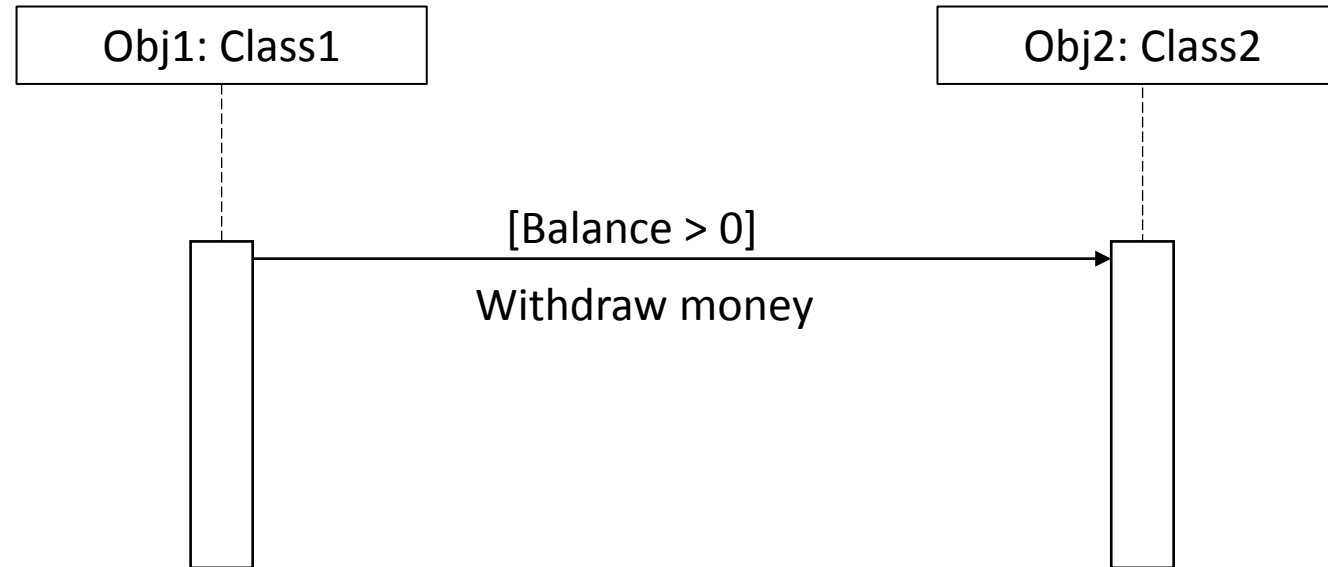
- **Actor**

- **Lifeline**

- **Activation**

Robert: Employee

Actor

UML Sequence Diagrams: Notations

- **Messages**

Obj1: Class1

Obj2: Class2

Message()

Reply()

Self message

UML Sequence Diagrams: Notations

- **Guards**

Obj1: Class1

Obj2: Class2

[Balance > 0]

Withdraw money

Sequence Diagrams Notations

- **Alternatives**
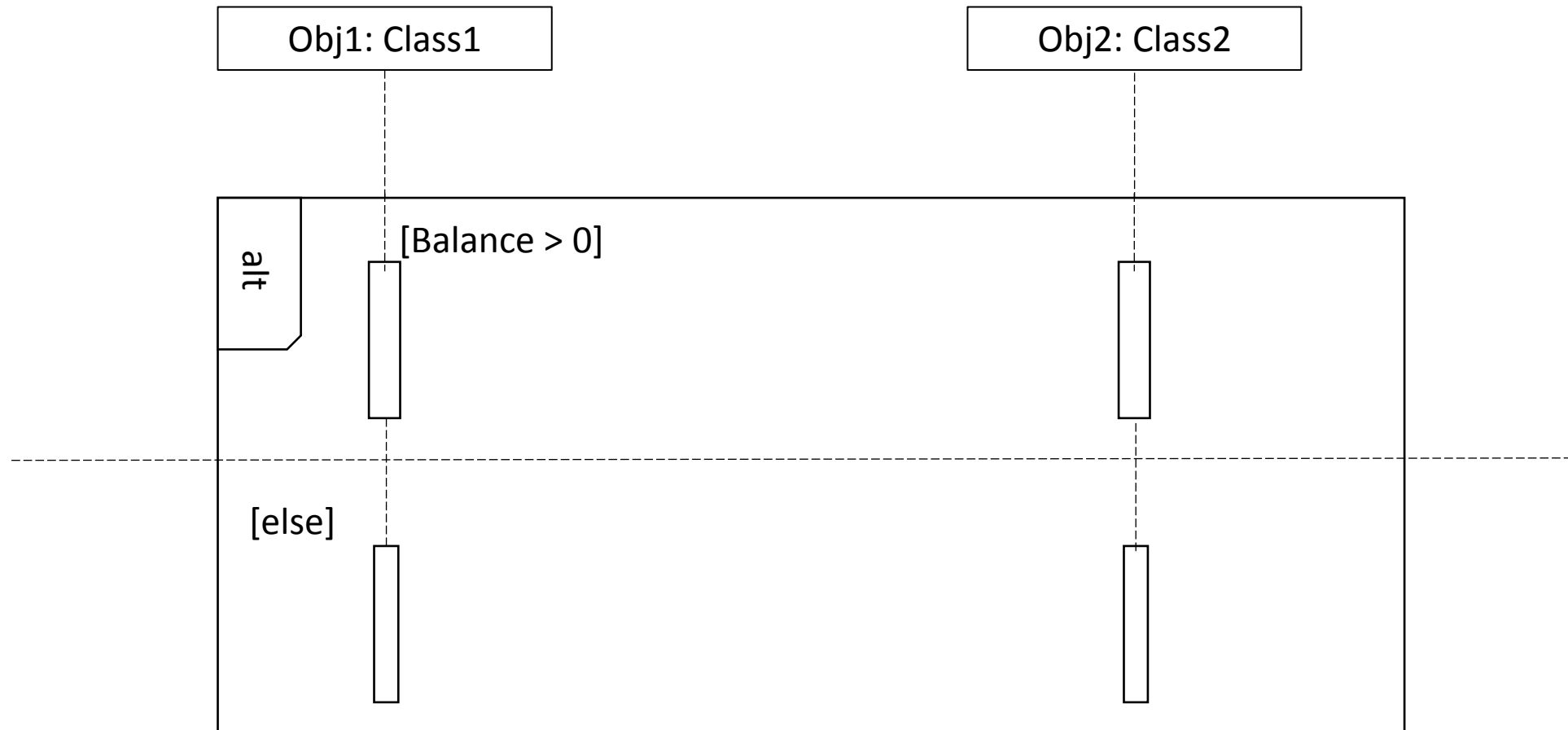
Alternatives (Example)

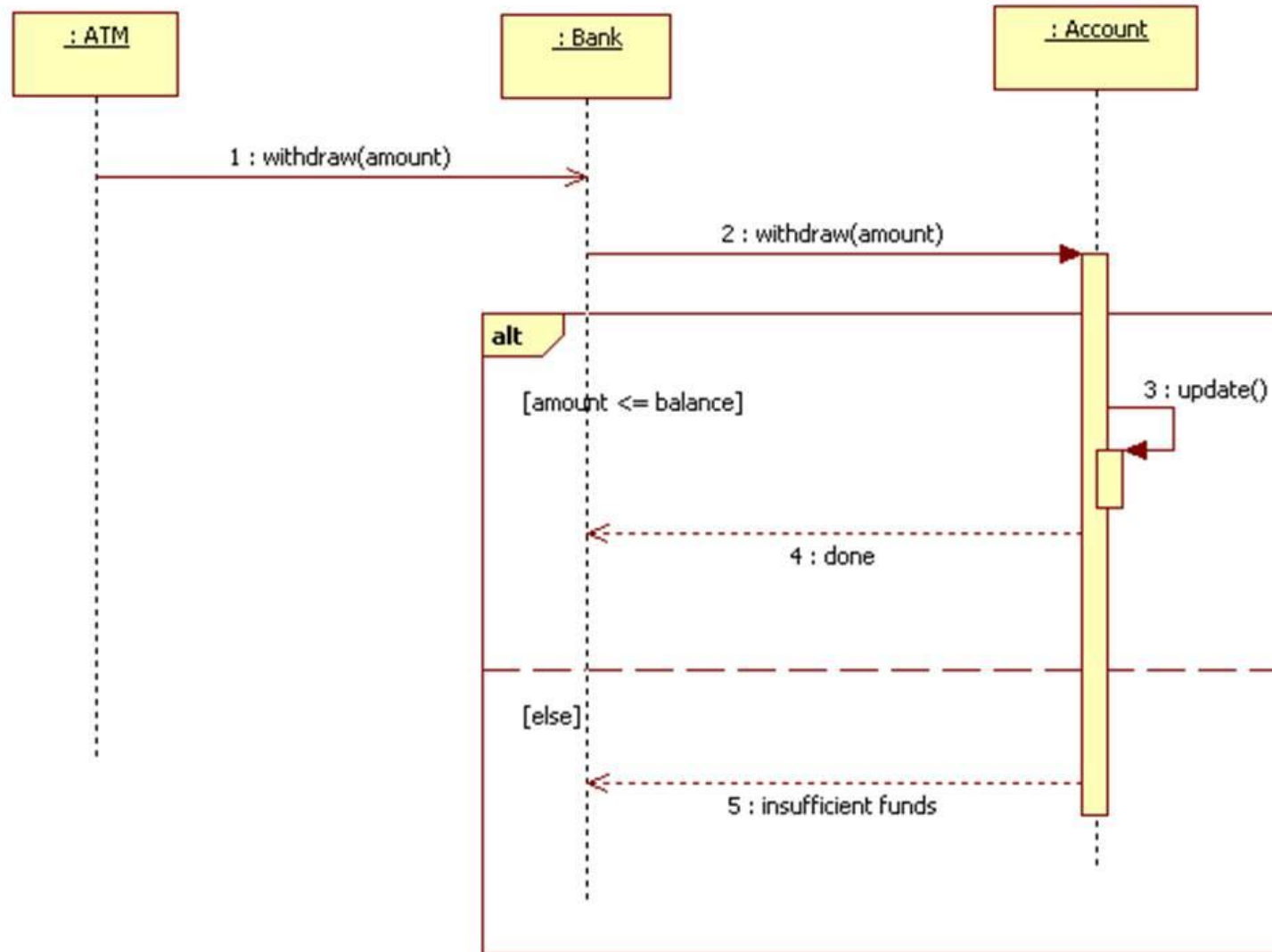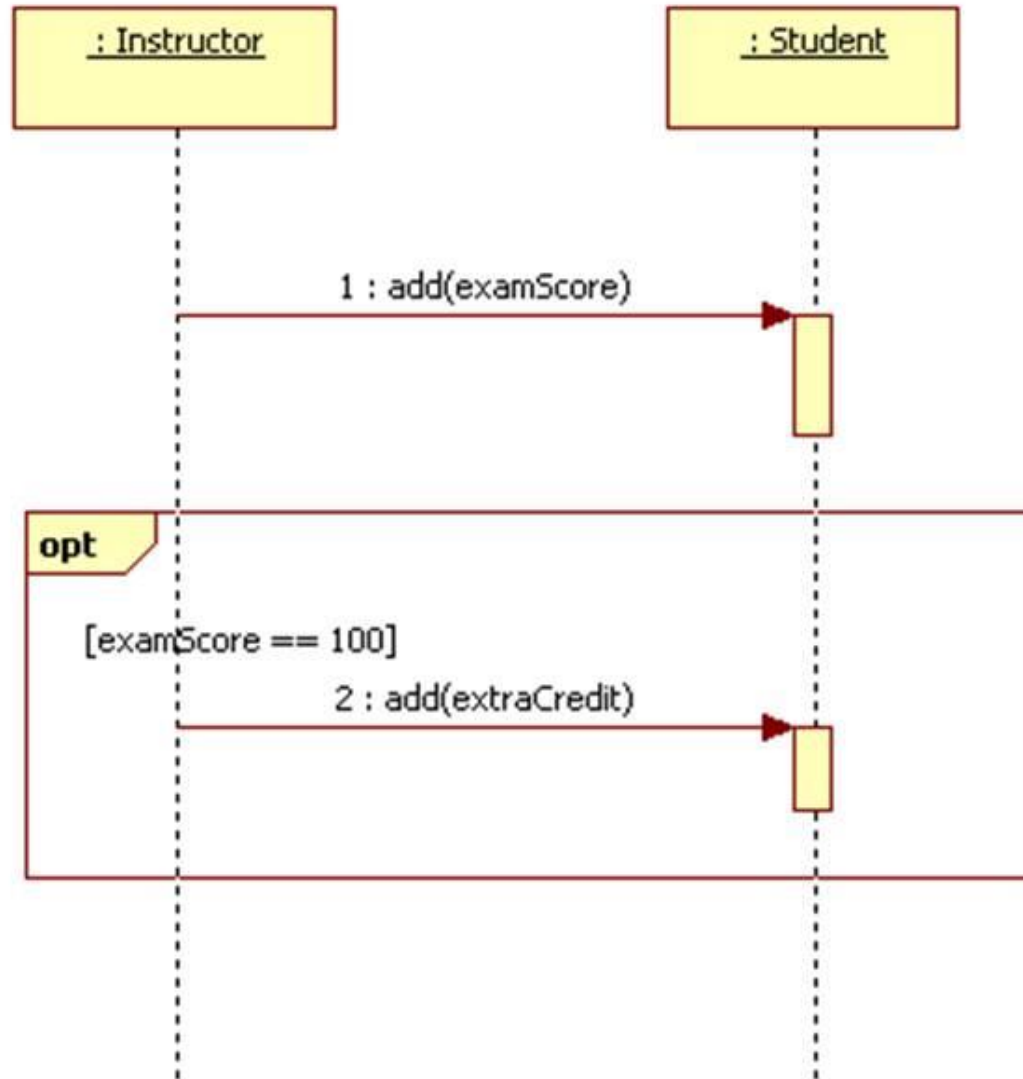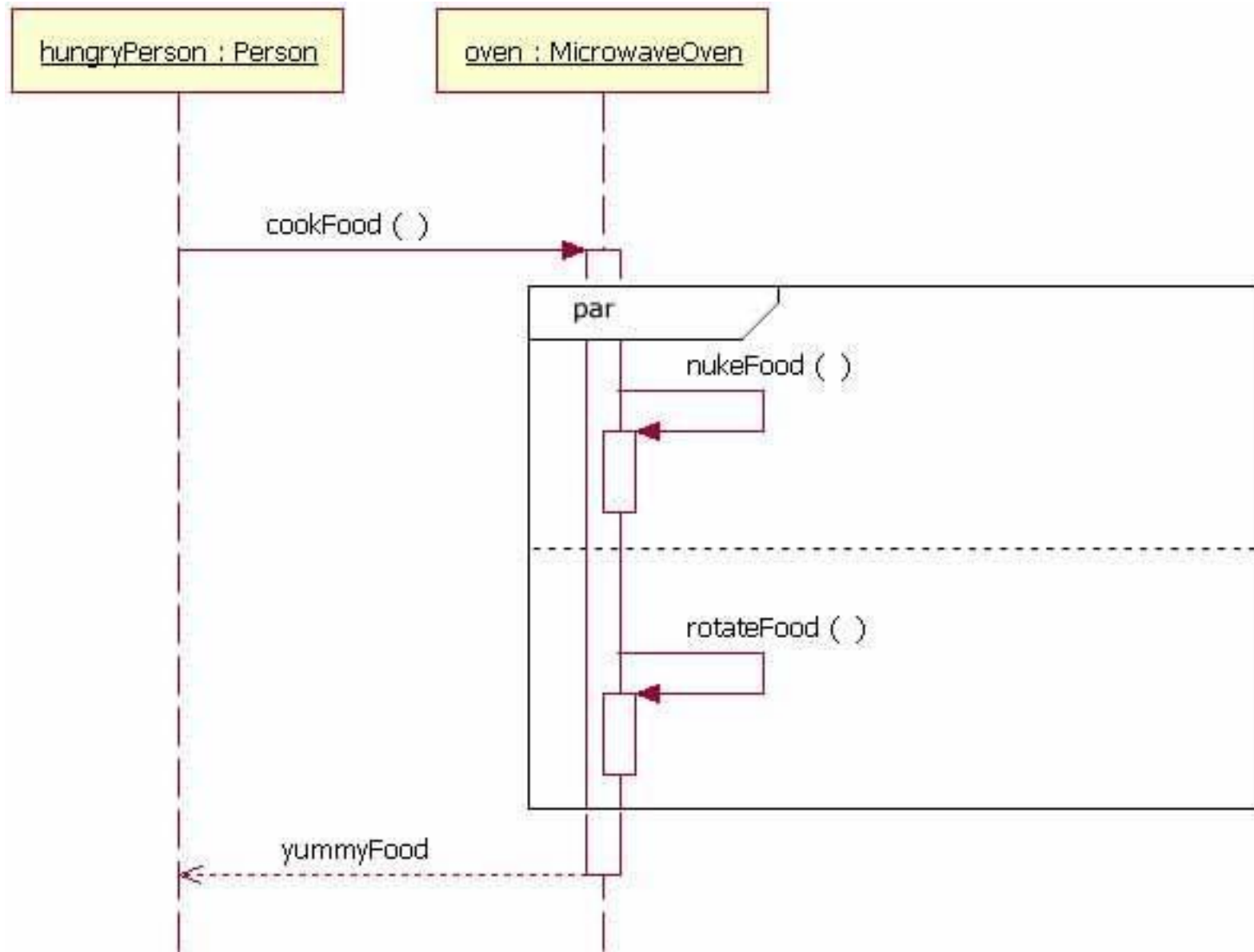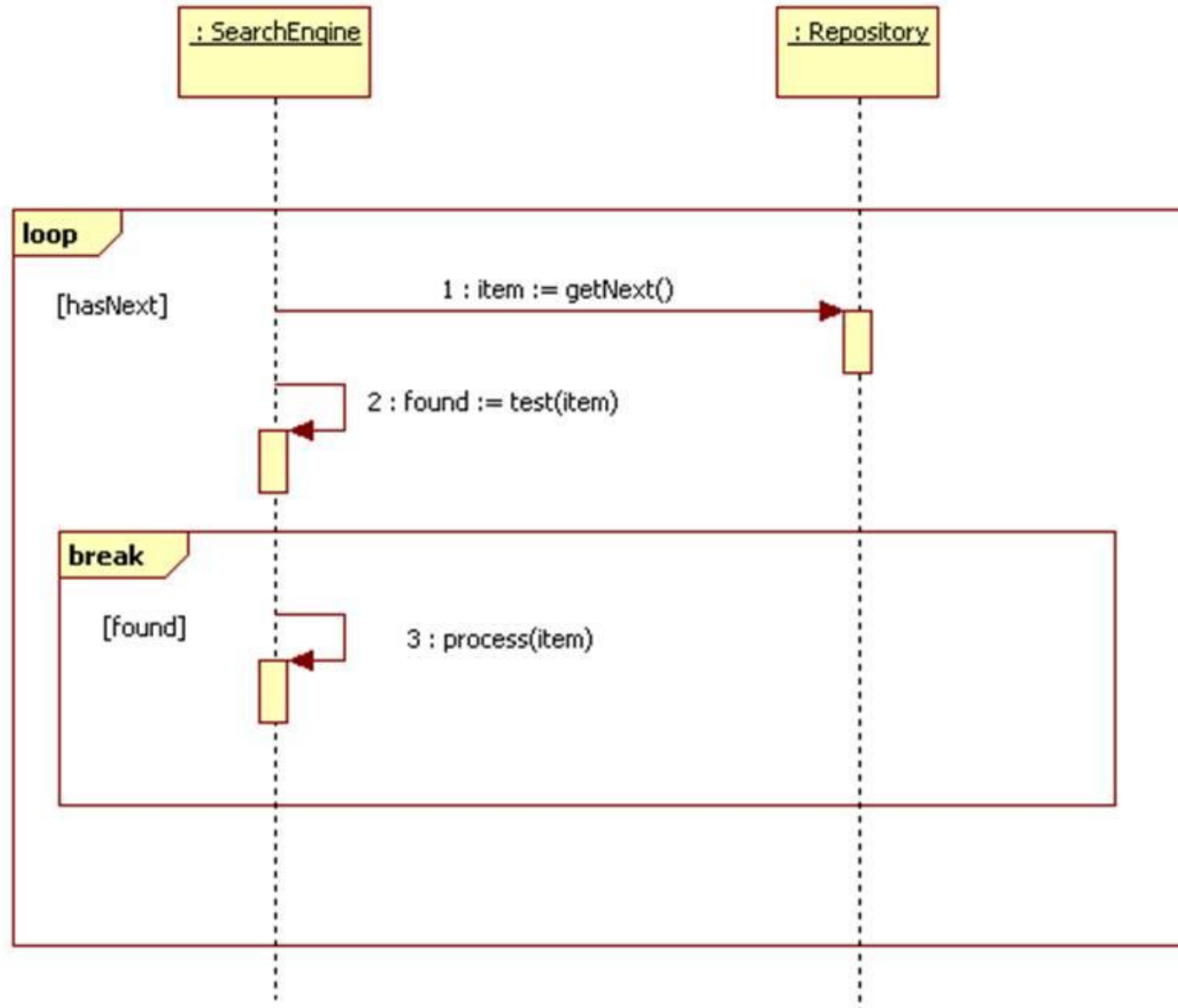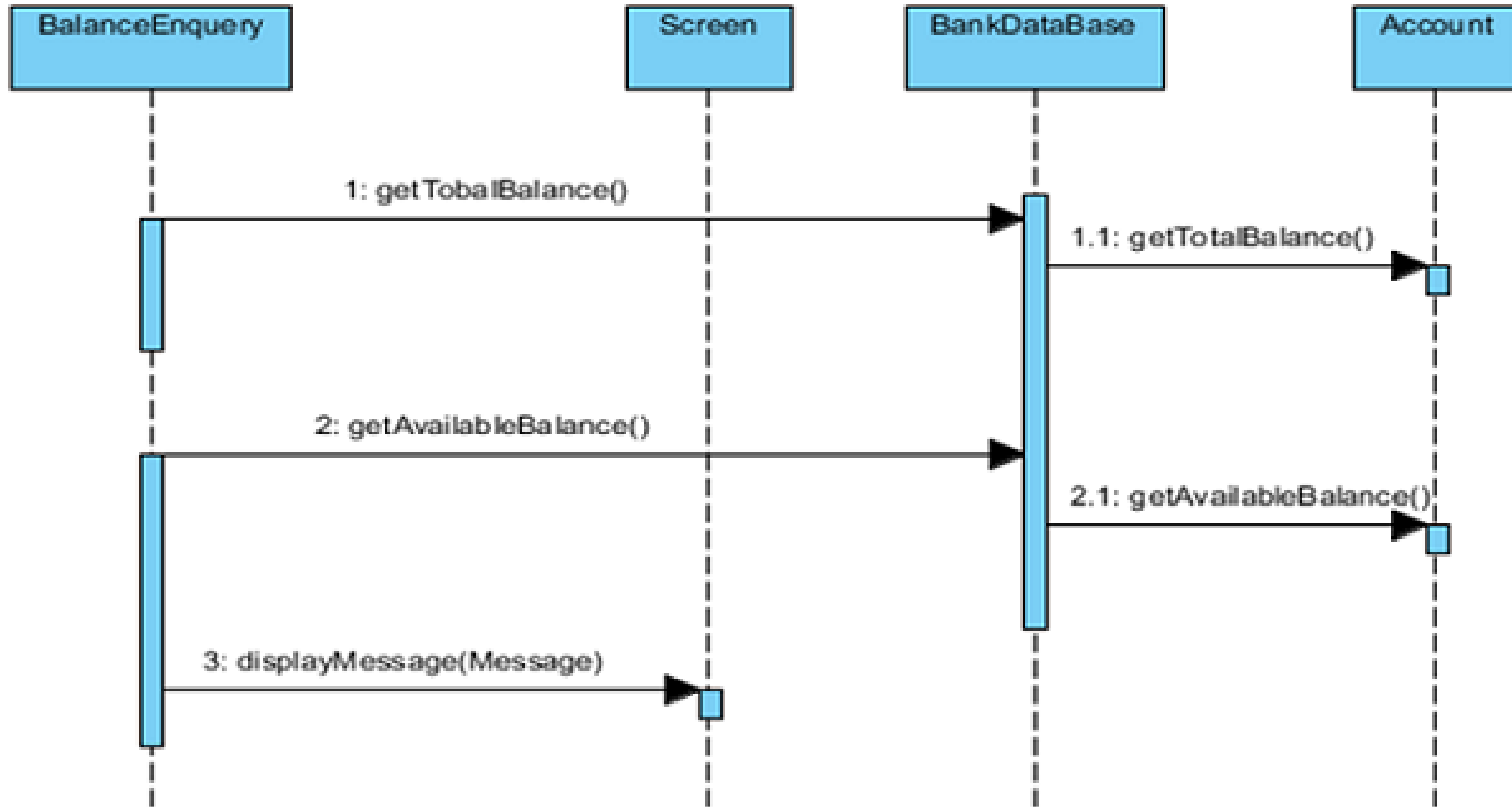# Sequence Diagrams Notations (Options)

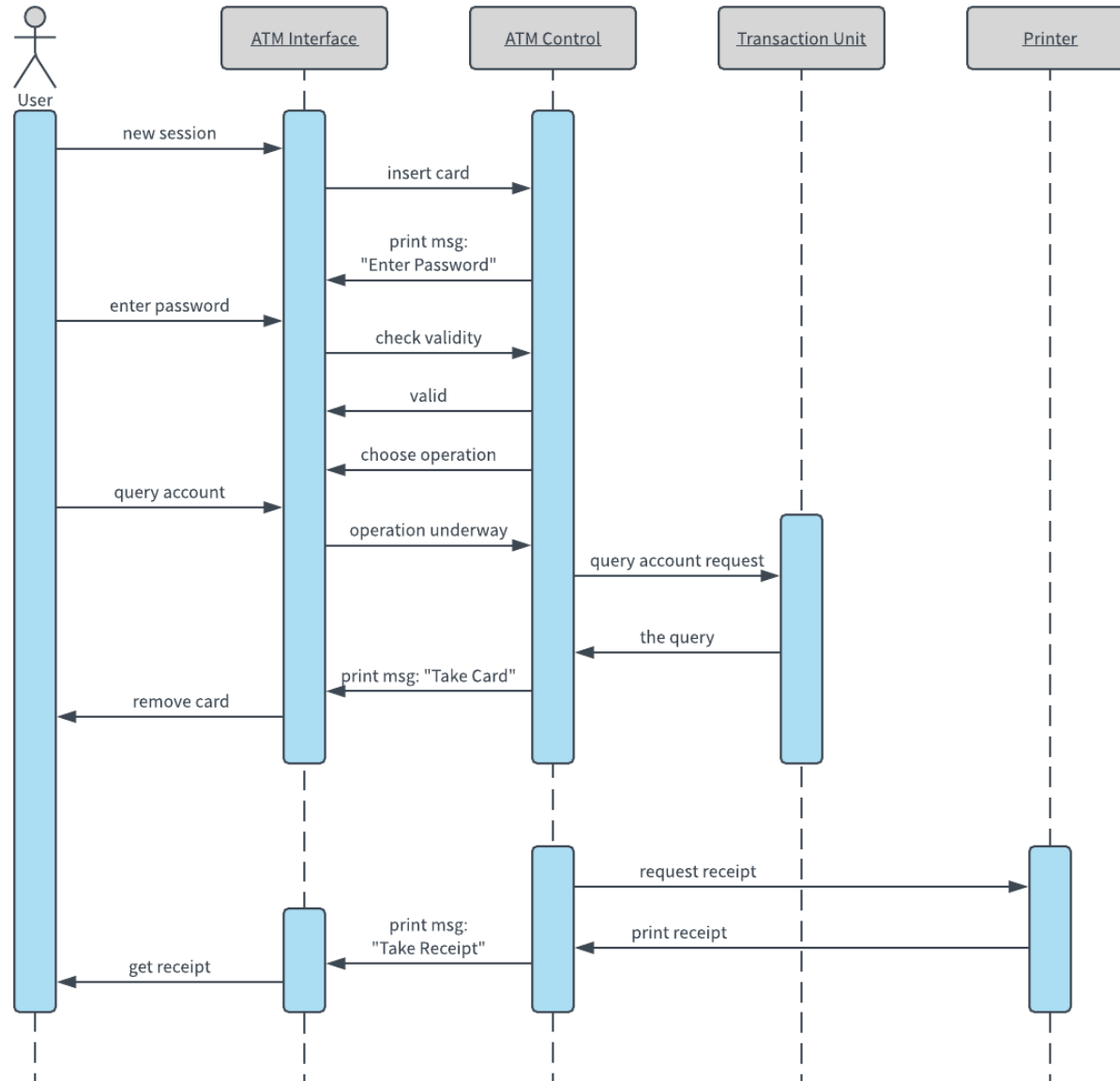# Sequence Diagram Notations (Parallel Activities)

9

Sequence Diagram Notations (Loop)

Sequence Diagram Example: 1

Sequence Diagram Example: 2

Sequence Diagram Example: 3