

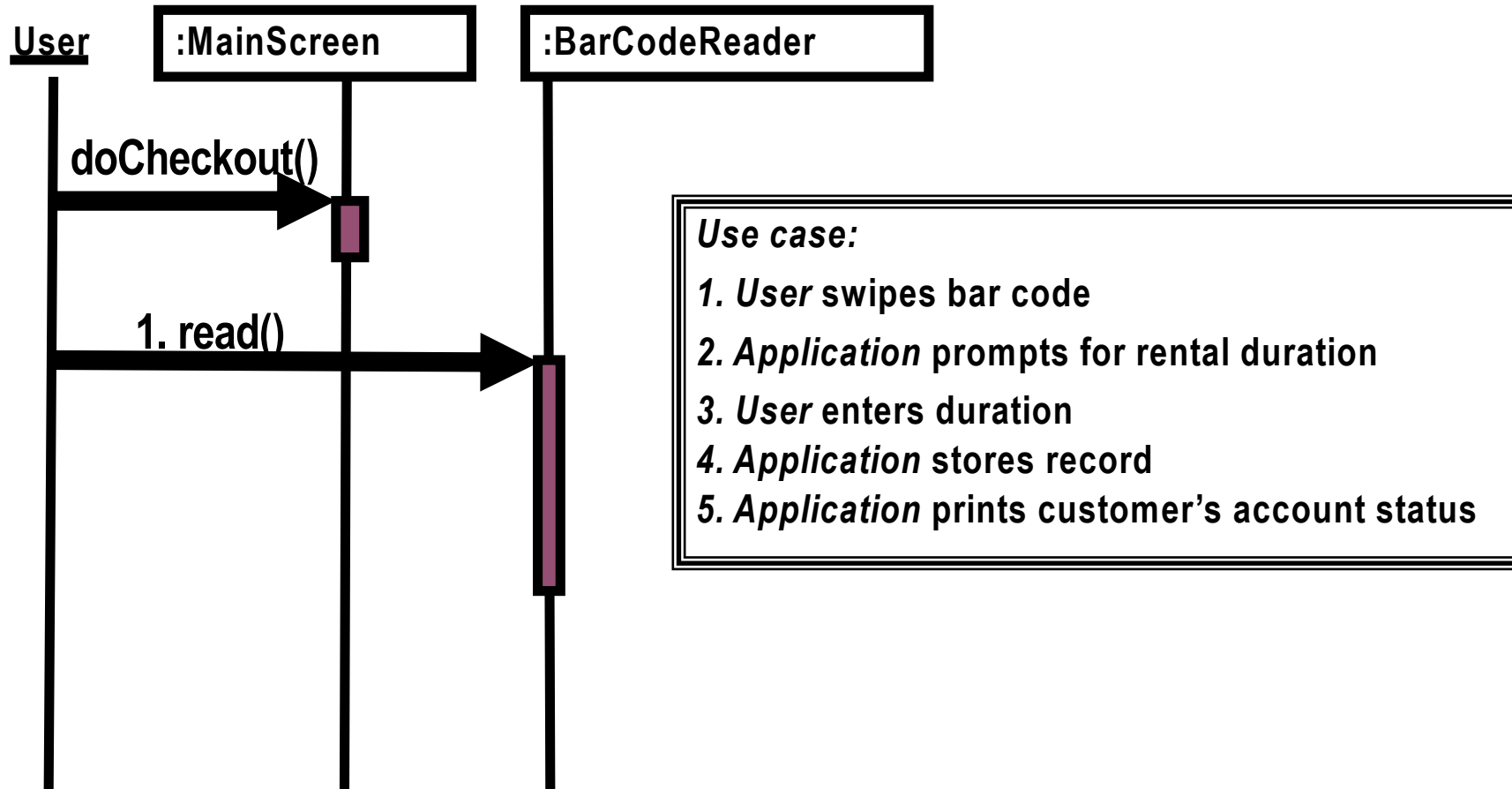
UML

Sequence Diagram

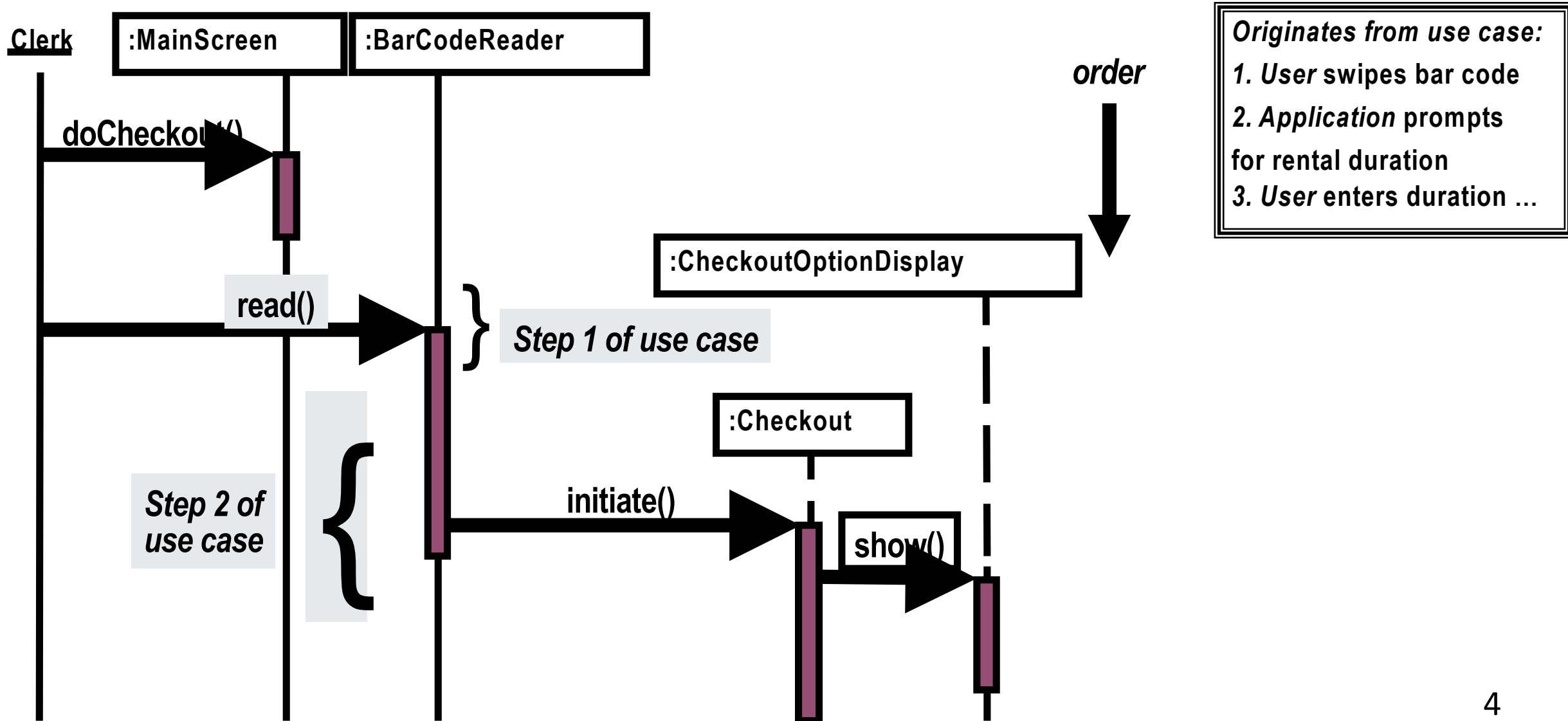
Sequence Diagram

Shows the interactions between objects in a time sequence.

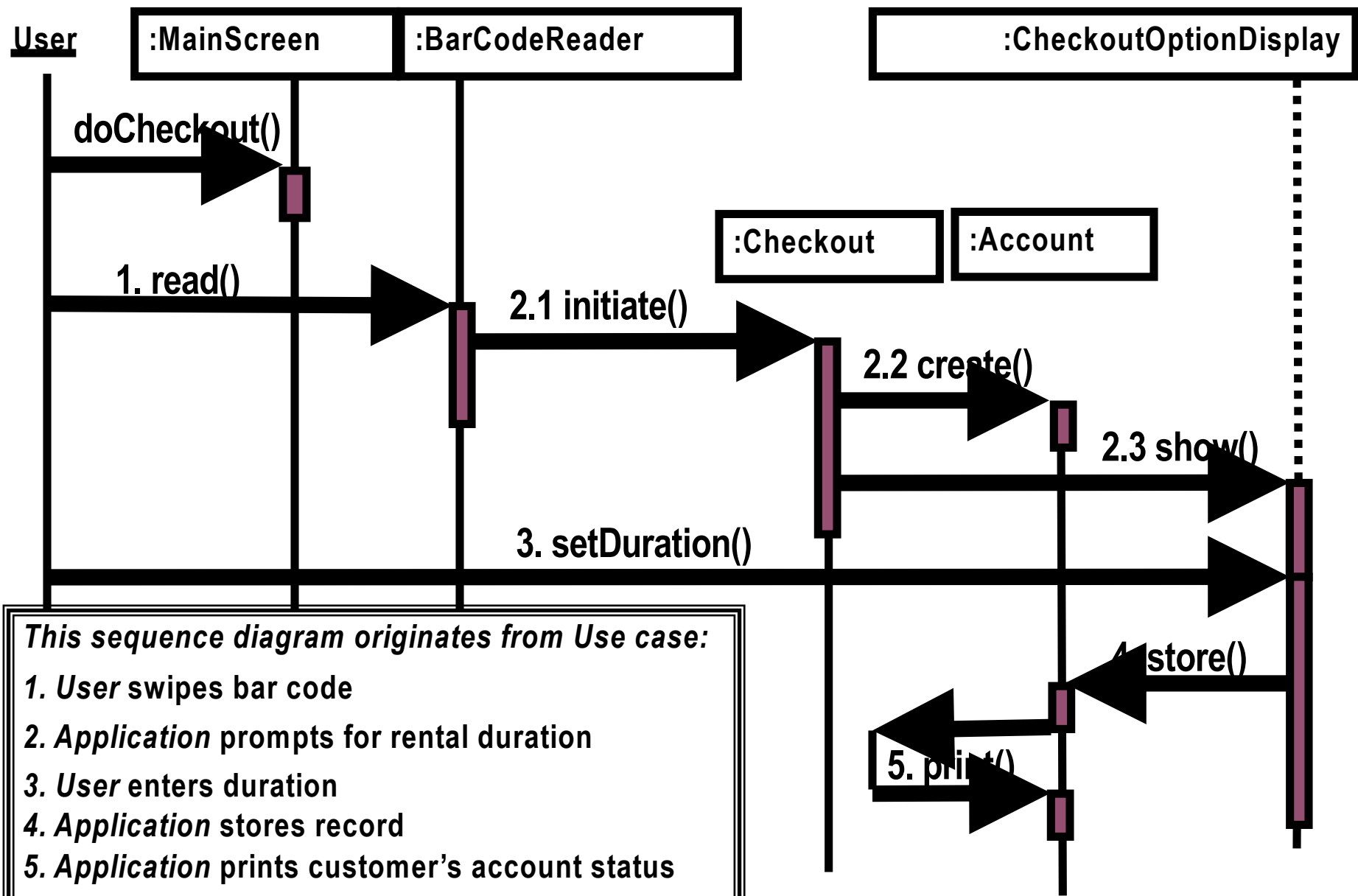
Sequence Diagram for Check Out Use Case



Sequence Diagram for Check Out Use Case

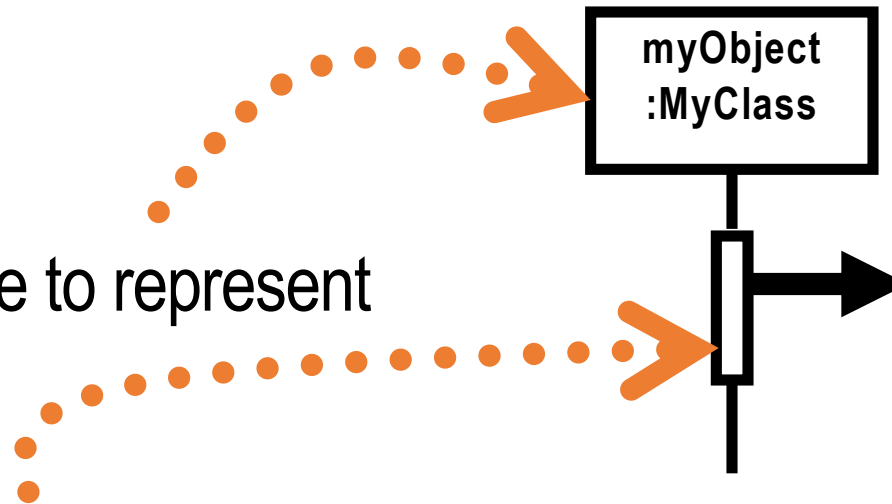


Sequence Diagram for Check Out Use Case



Building a Sequence Diagram 1

1. Identify the use case whose sequence diagram you will build (if applicable).
2. Identify which entity initiates the use case
 - the user, or
 - an object of a class
 - name the class
 - name the object if possible
3. If not the user, draw a rectangle to represent this initiating object at left top
 - use UML *object:Class* notation
4. Draw an elongated rectangle beneath this to represent the execution of the operation initiating the process
5. Draw an arrow pointing right from it



Building a Sequence Diagram 2

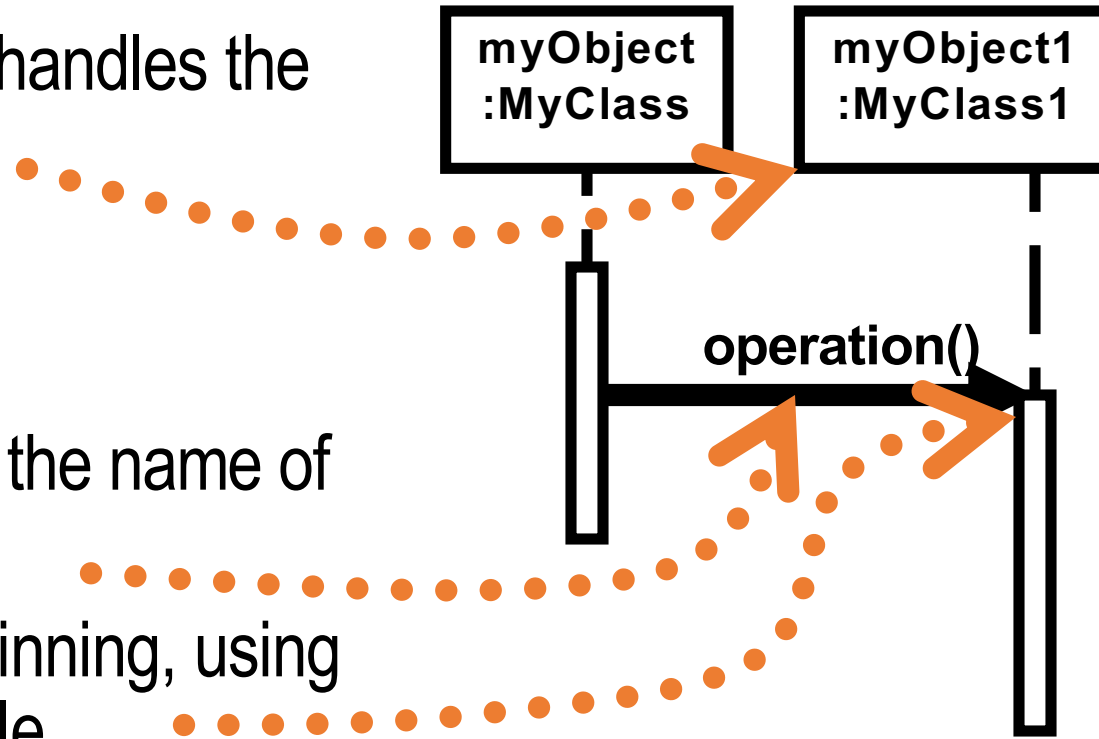
6. Identify which entity handles the operation initiated

- an object of a class
 - name the class
 - name the object

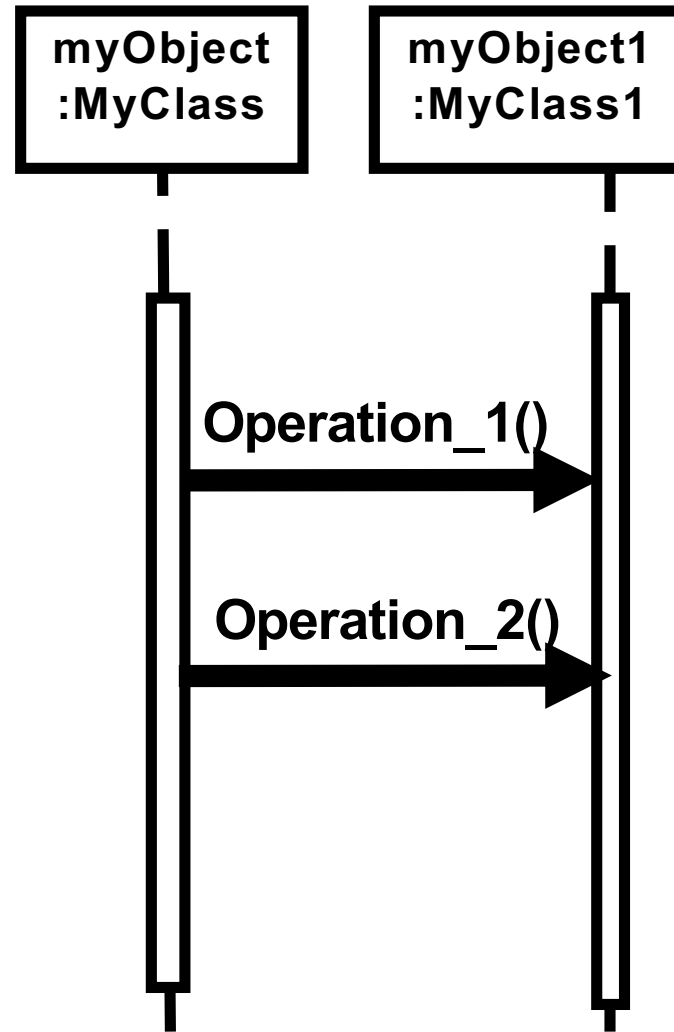
7. Label the arrow with the name of the operation

8. Show a process beginning, using an elongated rectangle

9..... Continue with each new statement of the use case.



Combined Fragment – Parallel Execution



Combined Fragment

Interaction operator could be one of:

- alt - alternatives
- opt - option
- loop - iteration
- break - break
- par - parallel
- strict - strict sequencing
- seq - weak sequencing
- critical - critical region
- ignore - ignore
- consider - consider
- assert - assertion
- neg - negative

Find more Examples here

<https://www.uml-diagrams.org/sequence-diagrams-reference.html>