

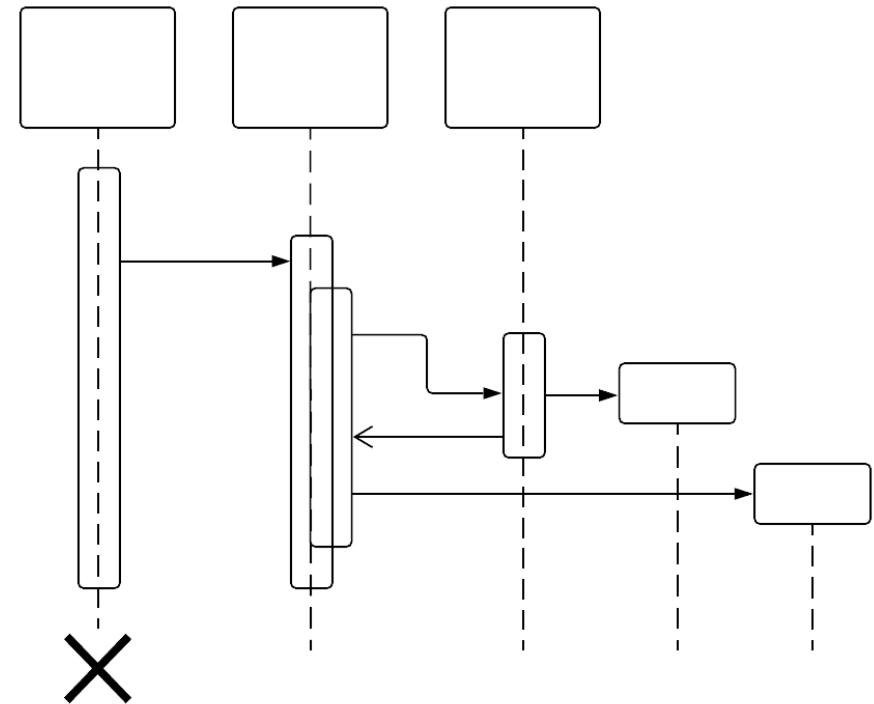
SEQUENCE MODELLING

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SENG 300

What is a sequence diagram in UML?

- Sequence diagram is a type of UML diagram that show how object in a system interact with each other.



Objects/Roles

- An object in a diagram (any UML diagram) represents a specific object.
- A role represents a placeholder into which different objects can be slotted at different times.

obj: FooClass

: FooClass

object

obj:

role: FooClass

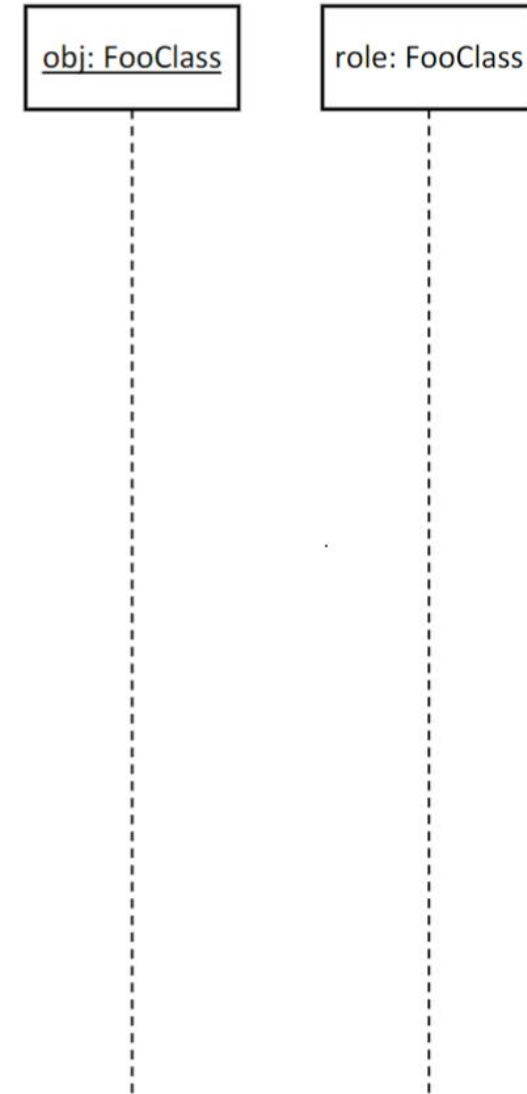
: FooClass

role

obj:

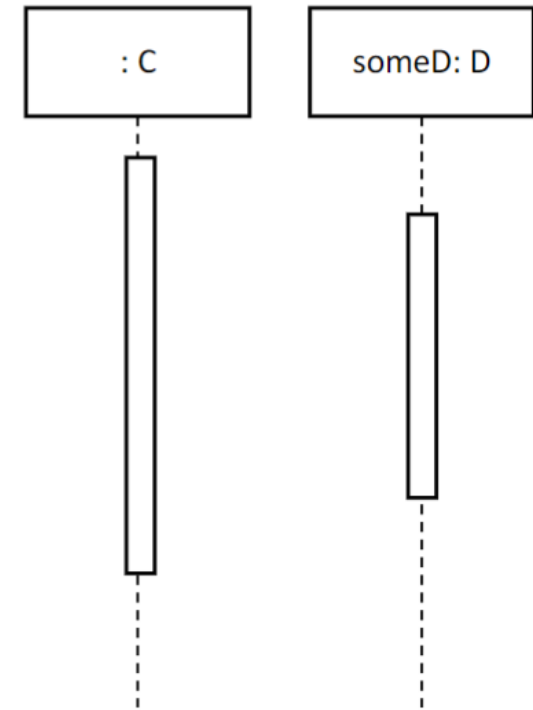
Lifeline

- Represents the passage of time as it extends downward.



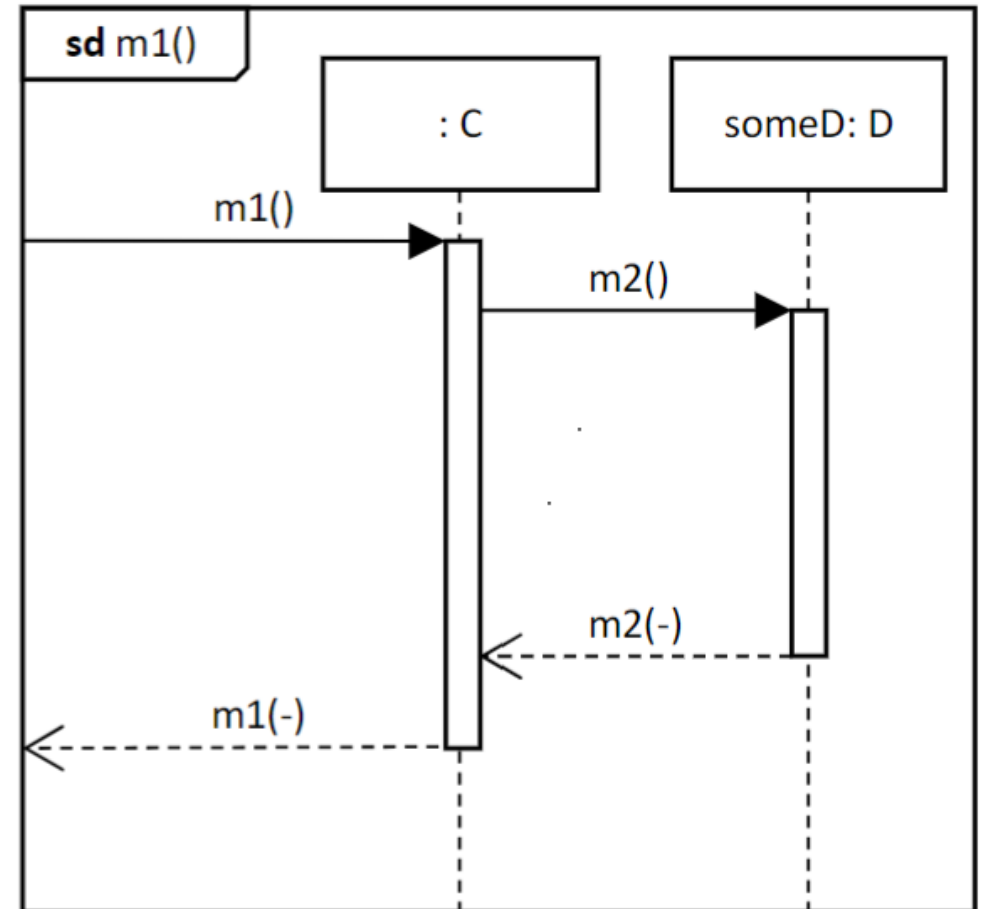
Activation Bars

- An activation bar indicates when an object/role/class is actively doing something (or waiting for a response to a call to another method).



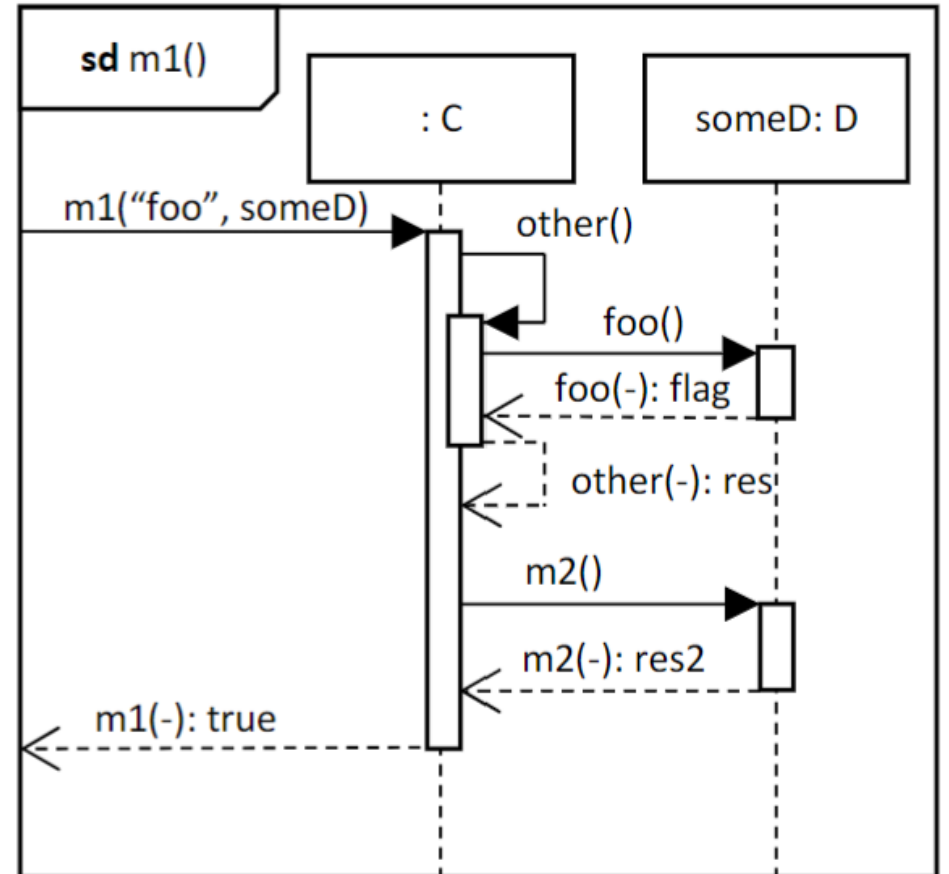
Method Call and Method Return

- Method calls and method returns are shown as arrows between activation bars.
- Next, we see that each of these method calls returns after some time.

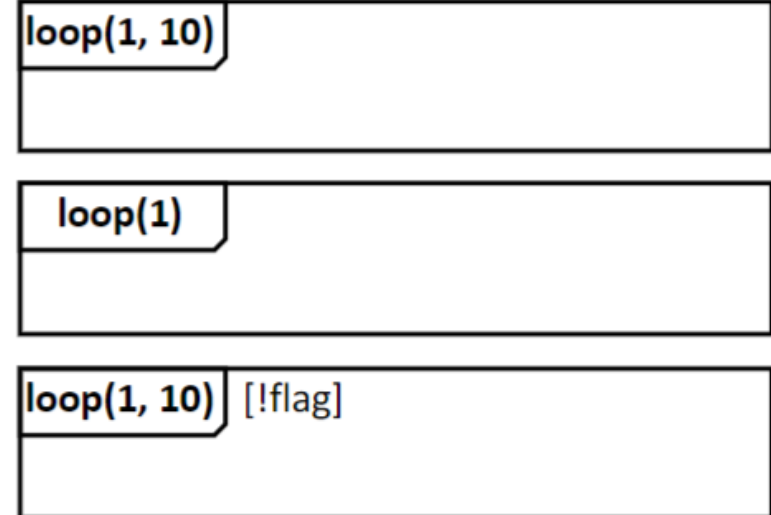
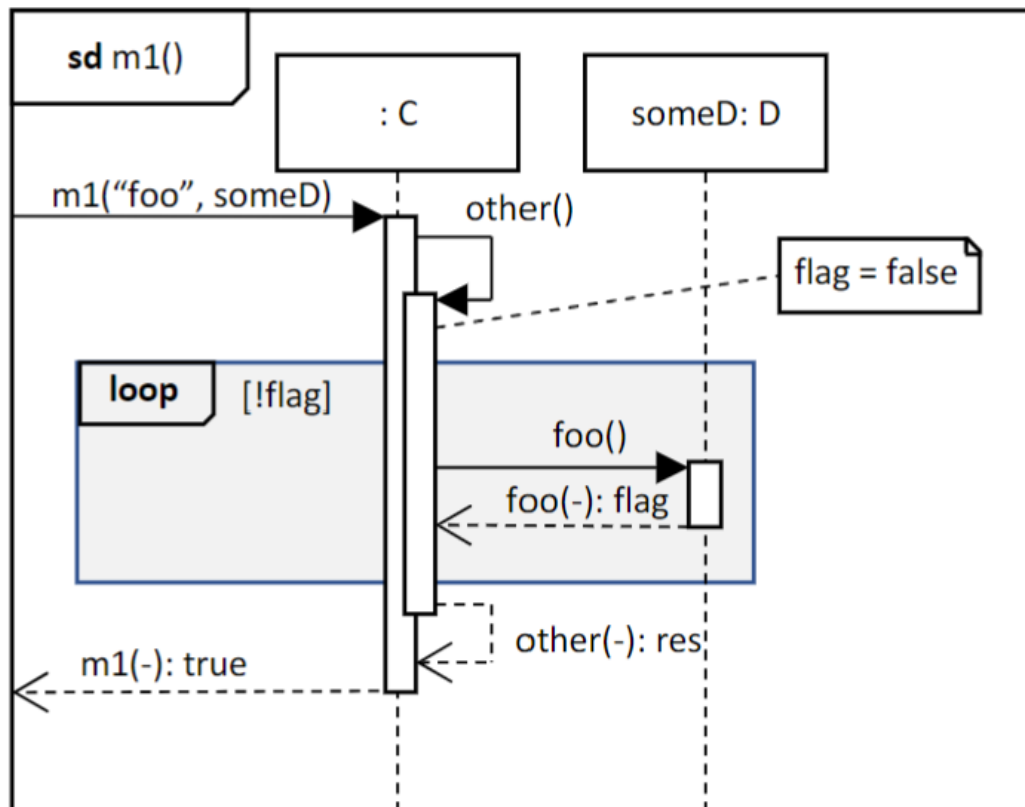


Self-call

- A self-call is a method that an object calls a method on itself, either the currently active method or a different one.



Loop Fragment



Alternative Fragment

