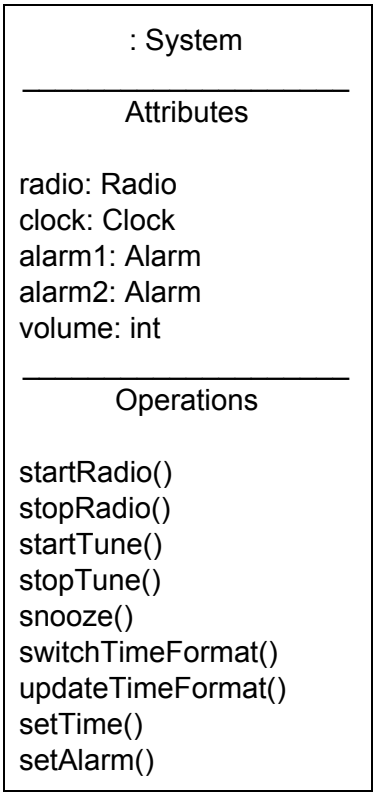
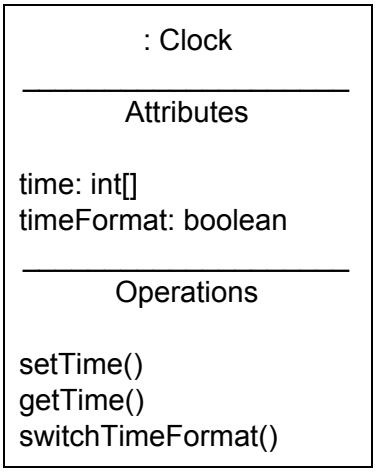
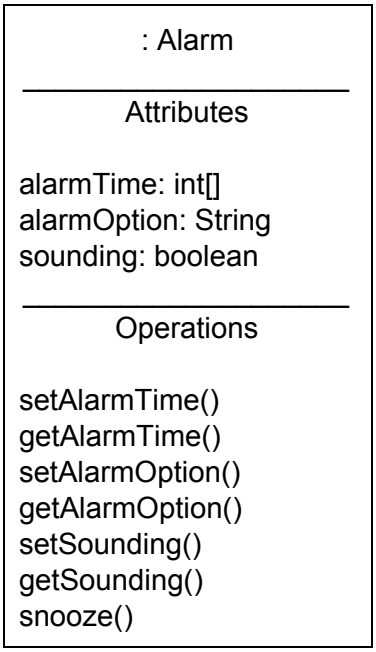
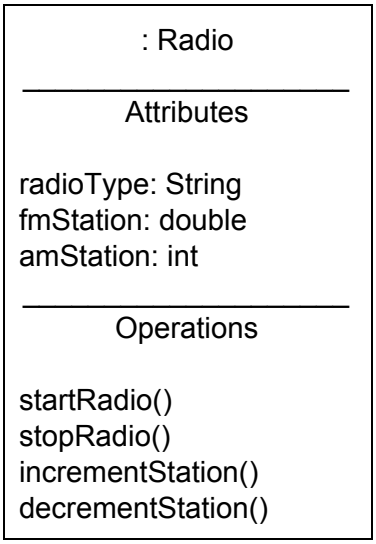

: System
Attributes
radio: Radio
clock: Clock
alarm1: Alarm
alarm2: Alarm
volume: int
Operations
startRadio()
stopRadio()
startTune()
stopTune()
snooze()
switchTimeFormat()
updateTimeFormat()
setTime()
setAlarm()

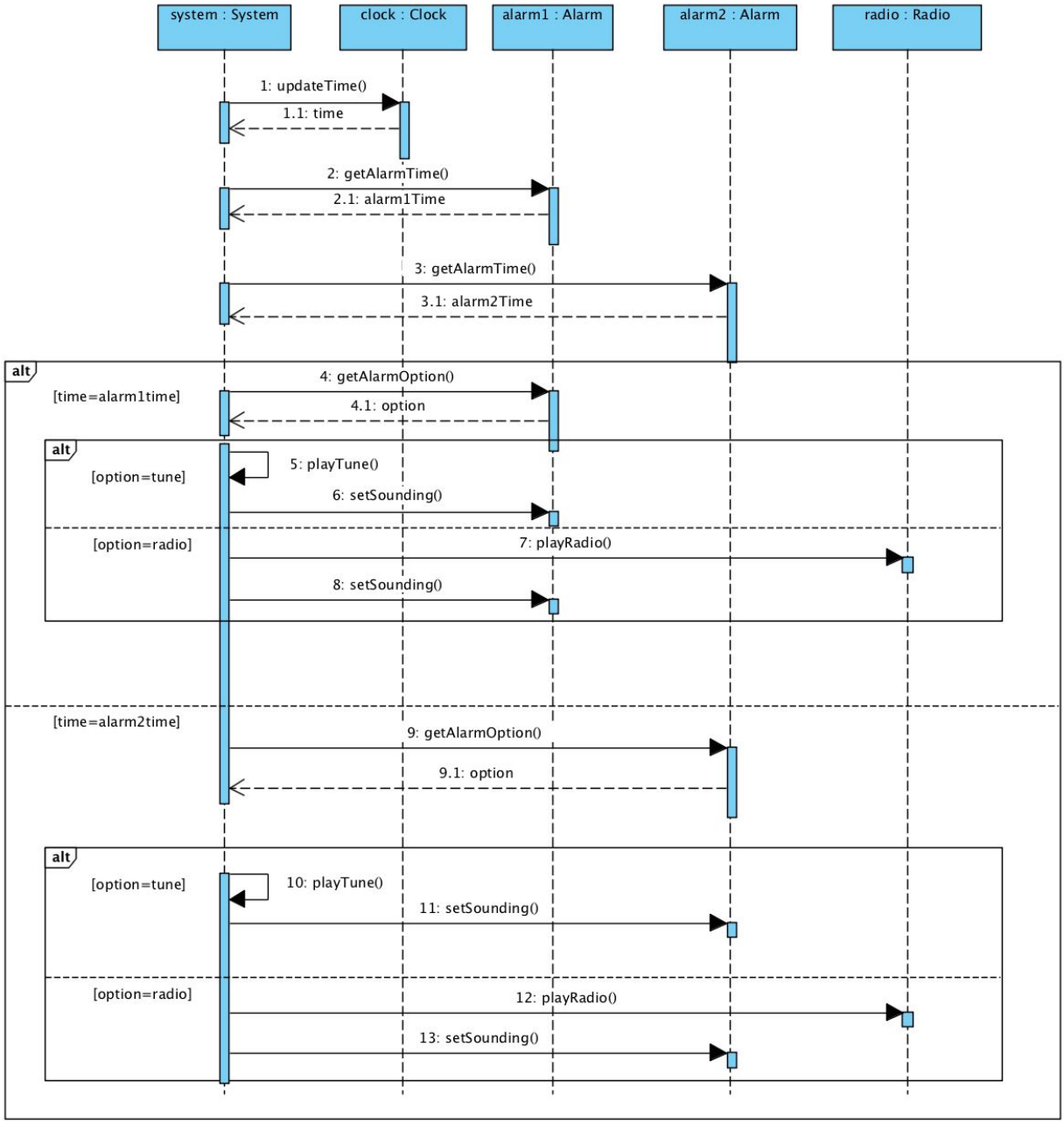
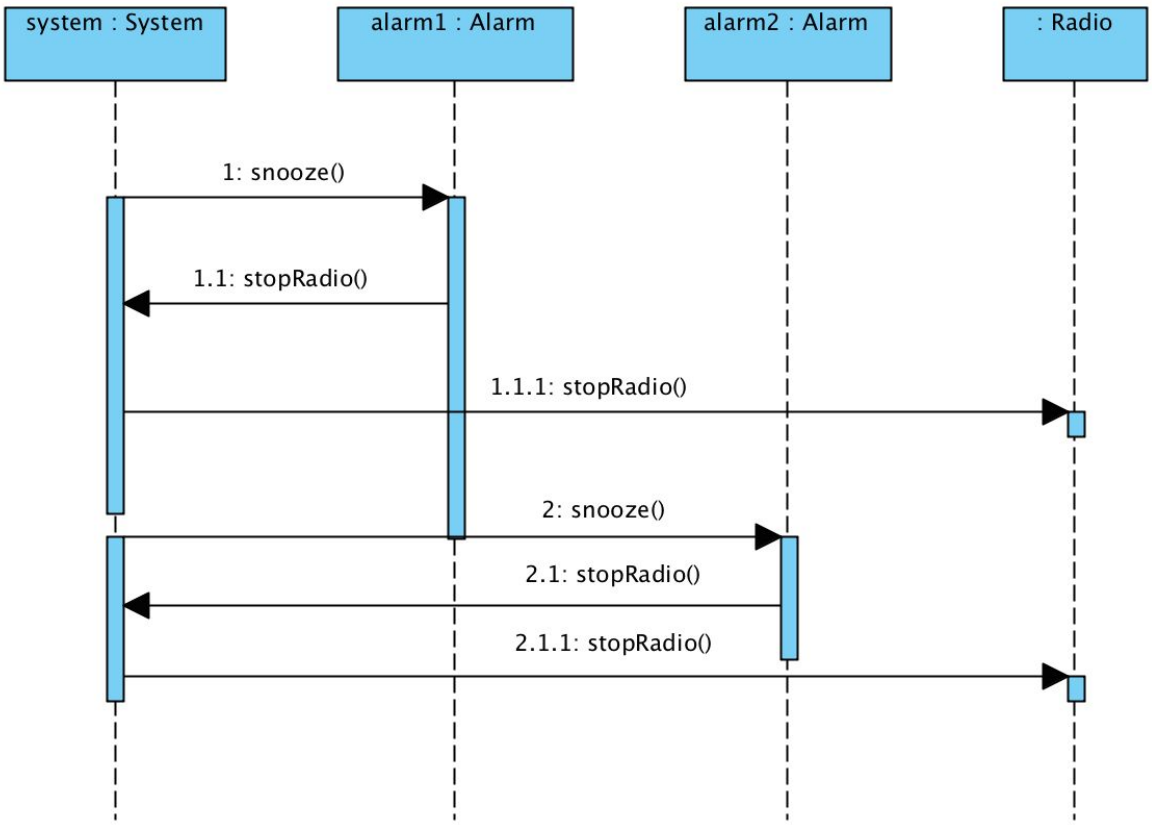

: Clock
Attributes
time: int[]
timeFormat: boolean
Operations
setTime()
getTime()
switchTimeFormat()


: Alarm
Attributes
alarmTime: int[]
alarmOption: String
sounding: boolean
Operations
setAlarmTime()
getAlarmTime()
setAlarmOption()
getAlarmOption()
setSounding()
getSounding()
snooze()


: Radio
Attributes
radioType: String
fmStation: double
amStation: int
Operations
startRadio()
stopRadio()
incrementStation()
decrementStation()

Instance Name	Class	Responsibilities	Methods	Collaborators	Attributes
system	System	- Creates the objects of the alarm clock - Manages the objects of the alarm clock - Manages interactions between the alarms and clock and between the alarms and radios - Knows the volume of the system	startRadio() stopRadio() startTune() stopTune() snooze() switchTimeFormat() updateTimeFormat() setTime() setAlarm()	clock alarm1 alarm2 radio	radio: Radio clock: Clock alarm1: Alarm alarm2: Alarm volume: int
clock	Clock	- Knows the time of the alarm clock - Knows the time format of the alarm clock	setTime() getTime() switchTimeFormat()	system	time: int[] timeFormat: boolean
alarm1	Alarm	- Knows the time of the first alarm - Knows the radio sounded for the first alarm	setAlarmTime() getAlarmTime() setAlarmOption() getAlarmOption() setSounding() getSounding() snooze()	system	alarmTime: int[] alarmOption: String sounding: boolean
alarm2		- Knows the time of the second alarm - Knows the radio sounded for the second alarm		system	
radio	Radio	- Knows the set station of the AM/FM Radio	startRadio() stopRadio() incrementStation() decrementStation()	system	radioType: String fmStation: double amStation: int

Checking the Alarms



Snoozing the Alarms