

Exercise 1 : Baby Monitor I



Assignment 1: Draw a class diagram for your solution using whatever means necessary.

Assignment 2: Implement a simple Baby Monitoring System using the Observer pattern. You only have to implement it for 1 baby and 2 different types of Monitors (simple, advanced). Babies are either crying or they're not. If they are, they can cry at 3 different levels (sobbing - 0, crying - 1, screaming - 2). The simple monitor can only notify its user that the baby is crying and the advanced monitor also indicates the level of crying.

Assignment 3: The advanced monitor can not only display the level but can be hooked up to listen to two different Babies (i.e. BabyData objects). Extend your solution to accommodate this feature.

Assignment 4: Is there a way to meaningfully display the name of the baby that is crying at the advanced monitor? If so can you name one obvious drawback of such a solution with regard to the interface with which Observers and Subjects communicate?