**Reading Assignment 3 – HFDP Chapter 2**

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Instructions:

* Read pages 37-78 of your text.
* Type answers to the questions below (don’t remove questions).
* Submit on Blazeview under *RA 3*.

1. What is wrong with the approach on page 42?
2. There is dependency/coupling between the subject and observers for the approach on page 42. There is also dependency/coupling between the subject and observers for the observer pattern. Why does the observer pattern have less dependency/coupling?
3. On page 59, the constructor is passed a reference to the *Subject*. Does this allow the observer access to the concrete subject (*WeatherData*)? Explain.
4. Explain what it means to have the subject push its state to the observer as compared to having the observer pull its state from the subject. Why would you prefer one over the other?
5. Describe how the observer pattern adheres to the design principle on page 9 (*Identify the aspects of your application that vary and separate them from what stays the same*.).
6. Suppose class *B* extends class *A.* How could you make *B* be observable using Java’s *Observable*? For example, you would like to be able to write code like this: b.addObserver(…), b.notifyObservers(…), *etc*. Hint: use composition. Hint 2: Page 71 explains why you can’t do it directly. (This answer is not in the text, you’ll need to think about it)
7. Explain how the observer pattern is at work in a Swing application when a button is pressed.