**COMSATS University Islamabad**

**Abbottabad campus**

**Lab-2 Part-2**

**Subject: Design Pattern**

**Class: BSE-7B**

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**Submitted to: Mukhtiar Zamin**

**Assignment Title: Lab2 part2 Observer Pattern Lab Work**

**Link to GitHub Course repository:**

<https://github.com/Irfankhan761/Design-Pattern-Lab-Work>

**Link to GitHub Lab2 Part1 repository:**

https://github.com/Irfankhan761/Design-Pattern-Lab-Work/tree/main/LAB2%20Part2

**Description:**

In this lab, I will be implementing all examples of the observer pattern which were mentioned in lab tasks.

Question1 Task:

In the first example, I have completed my lab task. Here are the steps I followed:

To convert the anonymous concrete observer into a proper concrete observer class, follow these steps:

* Create a new class that implements the Observer interface.
* Override the update method in the new class to specify how it should react to updates.
* Instantiate the new observer class and add it to the EventSource.

Question2 Task:

To add the detach(Observer o) method to the Subject class and modify the pattern so that only active observers are notified, you can make the following changes:

1. Add the detach(Observer o) method to the Subject class to remove an observer from the list of observers.

2. Modify the notifyAllObservers() method to check if each observer is active before notifying it.