Question 4: Comment on the advantages and disadvantages of the 3 approaches

Approach	Advantages	Disadvantages
Standard interaction pattern	-Shows how objects communicate without becoming entangled with each other's data models and methods -Helps run code faster by providing a clear picture of how to implement the design	Problems will occur when not used as it helps understand the problems and solve them effectively
2. Interfaces	-Allows great flexibility in results -Sets the communication boundary between two entities such as two pieces of software	-Many patterns depend on the interface pattern as there is no way to know anything about an object without going through its interface -An object's interface does not provide any information about its implementation
3. Observer pattern	-Observers can be added or removed at any time -Allows sending data to other objects effectively without making any changes in the subject or Observer Classes	-Subscribers are notified in random order -If it is not implemented properly then the Observer can add complexity and lead to inadvertent performance issues