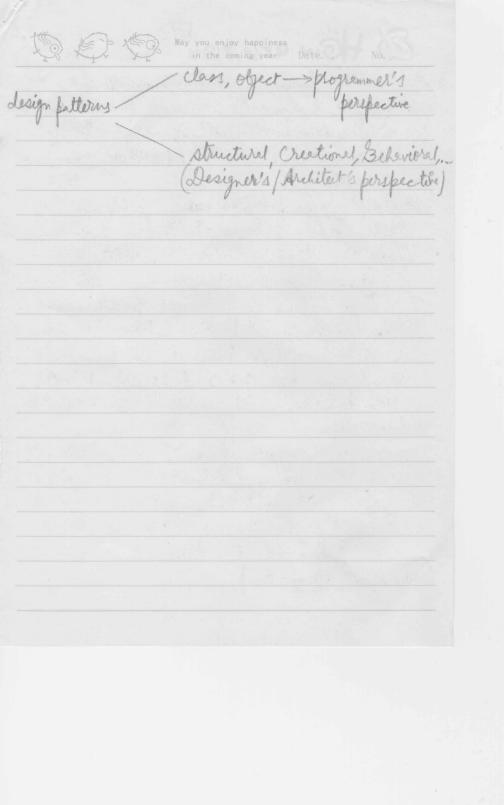
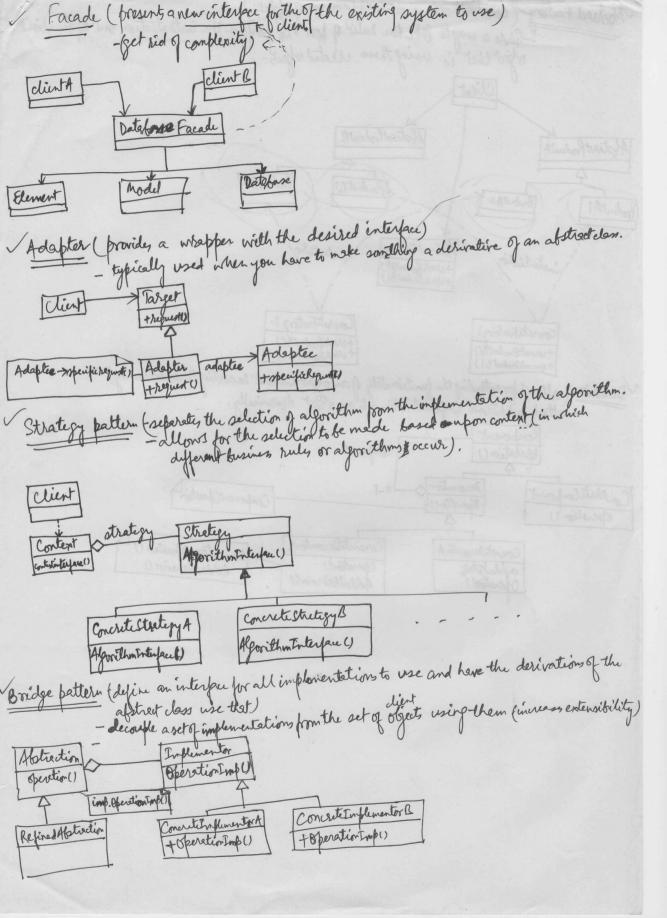


How are you problem is that classes can overlap responsibilities. Burdening a design with unnecessary classes wastes time for designers because they will spend hours trying to extend or modify classes that should not even exist in the system. Behavioral design patterns assign responsibilities to objects. These patterns also provide proven strategies to model how objects collaborate with one another and offer special behaviors appropriate for a wide variety of applications. The Offerver pattern is a classic example of collaborations between objects and of assigning responsibilities to objects. Flor example, GUI components use this pattern to communicate with their listeners, which respond to user interactions. A listener observes state changes in a particular component by registering to handle that component's events. When the user interacts with the component, that component notifies its listeners (also known a) its observors) that the component's state has changed (e.g., a button has been pressed). behavior/method/operation]





(coordinates the creation of families of offices) Abotract Factory - Gives a way to take the rules of how to perform the instantiation out of the dient object that is using these created objects. Client AfstreetProducts AfstraitfroductA Product B2 Product (1 Producta2 Product A1 Abtrectfactory instantiation, instantiation, + creatificate of () + creatificate () Concretifactory 2 concretifactory ! + creatifrodult() + concertification () + Makfordurb() + govertignoducts () Decorator-(allows for extending the functionality of an object without resorting to subclessing) - attach additional responsibilities to an object dynamically. Component operation () Component Concrete Component Decorator Component Operation 10..1 Oberstin () Speration () ConcretiDecorators Decorator. Operation () ConcretiDecorator A Operation () Added Reherior () addedstate Added Behevior (1) Operation()