



I'm not robot



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&lt;/CoffeeSelection &gt; if (existingBeans != null) { if (existingBeans.getName().equals(newBeans.getName())) { existingBeans.setQuantity(existingBeans.getQuantity() + newBeans.getQuantity()); else { throw new CoffeeException(Coffee supported for each CoffeeSelection is just a type.); } else { this.beans.put(sel, newBeans); } } } } You can use PremiumCoffeeMachine's CoffeeException method to prepare filter coffee or espresso. As you can see, the method has the same name as defined by the FilterCoffeeMachine interface, but the method signature is incompatible. Waits for a parameter and notes an exception. PremiumCoffeeMachine represents a coffee machine, but does not implement the FilterCoffeeMachine interface. Therefore, you cannot use it with FilterCoffeeApp. I will not change the class to implement the necessary interface. It is often not possible to modify existing classes because they are implemented by a different team or classes are used in other projects that do not have the required interface. I don't want to change the FilterCoffeeMachine interface either. BasicCoffeeMachine implements this interface and I need to change this class when I change the interface. In such cases, it is better to apply an adapter pattern. By applying the adapter, you enable your FilterCoffeeApp to use the coffee machine by introducing an adapter class that implements the FilterCoffeeMachine interface and envelops the PremiumCoffeeMachine class. In this example, the adapter class must perform two missions:filterCoffeeMachine interface. The BrewCoffee method should close the gap between the brewCoffee method defined by the interface and the brewCoffee method implemented by the PremiumCoffeeMachine class. The interface and existing class are not very different. This simplifies the implementation of the adapter class.public class FilterCoffeeAdapter FilterCoffeeMachine { custom Logger log = Logger.getLogger (FilterCoffeeAdapter.class.getSimpleName()); implements custom PremiumCoffeeMachine machine; public FilterCoffeeAdapter(PremiumCoffeeMachine machine) { this.machine = machine; } @Override public Coffee brewCoffee() { try { return machine.brewCoffee (CoffeeSelection.FILTER\_COFFEE); } catch (CoffeeException e) { log.severe(e.toString()); return null; } } } As you can see in the code snippet, the FilterCoffeeAdapter class implements the FilterCoffeeMachine interface and waits for a PremiumCoffeeMachine object as a constructor parameter. It holds this object in a special area so that it can use it in the brewCoffee method. The implementation of the BrewCoffee method is critical and, for the most adapter classes, the most difficult part. In this case, the PremiumCoffeeMachine class provides a method that you can call to perform the task. But it is more flexible and requires a CoffeeSelection enum value to define the coffee that will produce. The Method of the PremiumCoffeeMachine class FILTER\_COFFEE CoffeeException if it is called with a different CoffeeSelection value than the ESPRESSO and ESPRESSO. The brewCoffee method of the FilterCoffeeMachine interface does not report this exception, and you must process it within the method implementation. In this example, there is no perfect way to do this. If you can write a log message and return null, as I did in the code snippet, or RuntimeException.In from your application, you may have better ways to deal with the exception. You can re-attempt or trigger a different business process. This will make your application more robust and will better implement your adapter. The SummaryThe Adapter Pattern is a common pattern in object-oriented programming languages. Similar to adapters in the physical world, you implement a class that closes the gap between the expected interface and an existing class. This allows you to re-use an existing class that does not implement the required interface and use the functionality of multiple classes that would otherwise be incompatible. One advantage of The Adapter Pattern is that you do not need to modify the existing class or interface. By introducing a new class that performs adapters between the interface and the class, you avoid making any changes to existing code. This limits the scope of your changes to your software component and prevents any changes and side effects to other components or applications. Adapter Pattern Dependency Inversion ensures that the design policy is applied. If you are already unfamiliar, I recommend reading about different SOLID design principles. I wrote a series of articles describing five: APM, with server health metrics and error log integration, improve application performance with Stackify Retrace. Try a free two-week trial today

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