

Java & DSA - ASSIGNMENT - DAY 19

Please practice the following activities

1. Implement Open Close Principle for the relationship between given 2 classes
 - a. Meal
 - b. MealService
 - c. ItalianMealService

2. Implement Dependency Inversion Principle for the given below classes and showcase how coupling can be reduced.
 - a. Customer
 - b. Address

Here Customer and Address represents 1 to many relationships.

3. Demonstrate Interface segregation principle for the Interface given below.

```
interface PaymentCallback{  
    void onPaymentSucess(String message);  
    void onPaymentFailed(String message);  
    void sendInvoiceToEmail(String email);  
    void onInvoiceSent();  
}
```

4. Consider a class BookStore which must deal with Book class. You need to assign a responsibility by creating a suitable method getAllBooks in BookStore class to demonstrate the Expert GRASP Principle.

5. Showcase how GRASP Principle indirection can be used in eCommerce Store when a User places an Order.