SUPERSET ID-6413402

DECORATOR PATTERN

// Component

interface Notifier {

void send();

}

// Concrete Component

class EmailNotifier implements Notifier {

public void send() {

System.out.println("Sending Email Notification");

}

}

// Decorator

abstract class NotifierDecorator implements Notifier {

protected Notifier notifier;

public NotifierDecorator(Notifier notifier)

this.notifier = notifier;

}

public void send() {

notifier.send();

}

}

// Concrete Decorators

class SMSNotifier extends NotifierDecorator {

public SMSNotifier(Notifier notifier) {

super(notifier);

}

public void send() {

super.send();

System.out.println("Sending SMS Notification");

}

}

class SlackNotifier extends NotifierDecorator {

public SlackNotifier(Notifier notifier) {

super(notifier);

}

public void send() {

super.send();

System.out.println("Sending Slack Notification");

}

}

// Test

public class TestDecorator {

public static void main(String[] args) {

Notifier notifier = new EmailNotifier();

Notifier smsNotifier = new SMSNotifier(notifier);

Notifier allNotifier = new SlackNotifier(smsNotifier);

allNotifier.send();

}

}

**OUTPUT:**

Sending Email Notification

Sending SMS Notification

Sending Slack Notification

