

Visual Studio Code interface showing a Java project named "COGNIZANT". The Explorer view on the left lists the project structure, including files like AdapterPattern.java, BuilderPatternExample.java, CustomerOrderSorter.class, CustomerOrderSorter.java, CustomerOrderSorter\$Order.class, DecoratorPattern.java, ECommerceSearch.class, ECommerceSearch.java, ECommerceSearch\$Product.class, Employee.class, EmployeeManagementSystem.class, EmployeeManagementSystem.java, FactoryMethodPattern.java, FinancialForecasting.java, InventoryManagementSystem.java, LibraryManagementSystem.java, Product.class, and SingletonPattern.java. The DecoratorPattern.java file is selected and open in the editor.

The DecoratorPattern.java file contains the following code:

```
1 import java.util.Scanner;
2 interface Notifier {
3     void send(String message);
4 }
5 class EmailNotifier implements Notifier {
6     @Override
7     public void send(String message) {
8         System.out.println("Sending Email notification: " + message);
9     }
10 }
11 abstract class NotifierDecorator implements Notifier {
12     protected Notifier wrappedNotifier;
13
14     public NotifierDecorator(Notifier notifier) {
15         this.wrappedNotifier = notifier;
16     }
17     @Override
18     public void send(String message) {
19         wrappedNotifier.send(message);
20     }
21 }
22 class SMSNotifierDecorator extends NotifierDecorator {
23     public SMSNotifierDecorator(Notifier notifier) {
24         super(notifier);
25     }
26 }
```

The editor shows a tooltip for "NotifierDecorator" at line 19, column 20. The status bar at the bottom indicates "Ln 63, Col 45", "Spaces: 4", "UTF-8", "CRLF", and "Java". The bottom of the screen shows the Windows taskbar with the date and time "21:04 20-06-2025".

File Edit Selection View Go Run ... ← → cognizant

EXPLORER

OPEN EDITORS

- DecoratorPattern.java 1

COGNIZANT

- AdapterPattern.java
- BuilderPatternExample.java
- CustomerOrderSorter.class
- CustomerOrderSorter.java
- CustomerOrderSorter\$Order.class
- DecoratorPattern.java 1
- ECommerceSearch.class
- ECommerceSearch.java
- ECommerceSearch\$Product.class
- Employee.class
- EmployeeManagementSystem.class
- EmployeeManagementSystem.java
- FactoryMethodPattern.java
- FinancialForecasting.java
- InventoryManagementSystem.java
- LibraryManagementSystem.java
- Product.class
- SingletonPattern.java

DecoratorPattern.java 1

```
22 class SMSNotifierDecorator extends NotifierDecorator {
26     @Override
27     public void send(String message) {
28         super.send(message);
29         sendSMS(message);
30     }
31     private void sendSMS(String message) {
32         System.out.println("Sending SMS notification: " + message);
33     }
34 }
35 class SlackNotifierDecorator extends NotifierDecorator {
36     public SlackNotifierDecorator(Notifier notifier) {
37         super(notifier);
38     }
39     @Override
40     public void send(String message) {
41         super.send(message);
42         sendSlack(message);
43     }
44     private void sendSlack(String message) {
45         System.out.println("Sending Slack notification: " + message);
46     }
47 }
48 public class DecoratorPattern {
    Run main | Debug main | Run | Debug
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

powerShell
Run: Decora...

Ln 63, Col 45 Spaces: 4 UTF-8 CRLF Java

25°C Partly cloudy Search

21:04 20-06-2025



