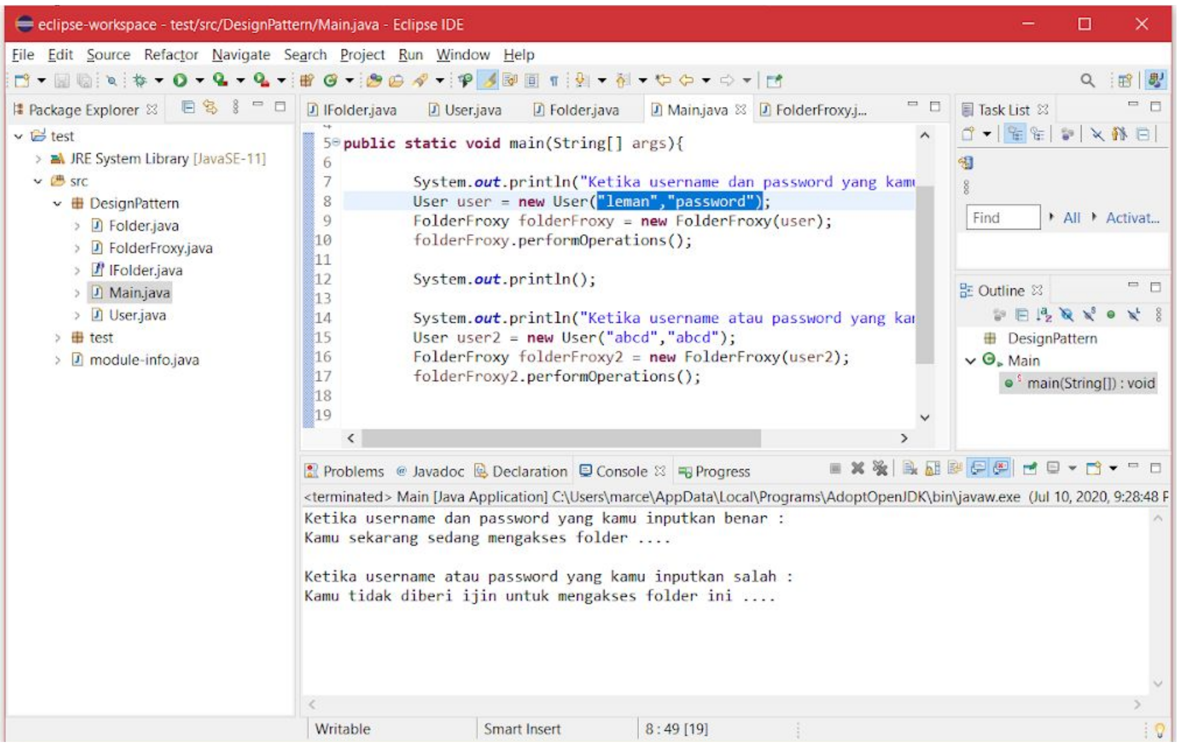
Output

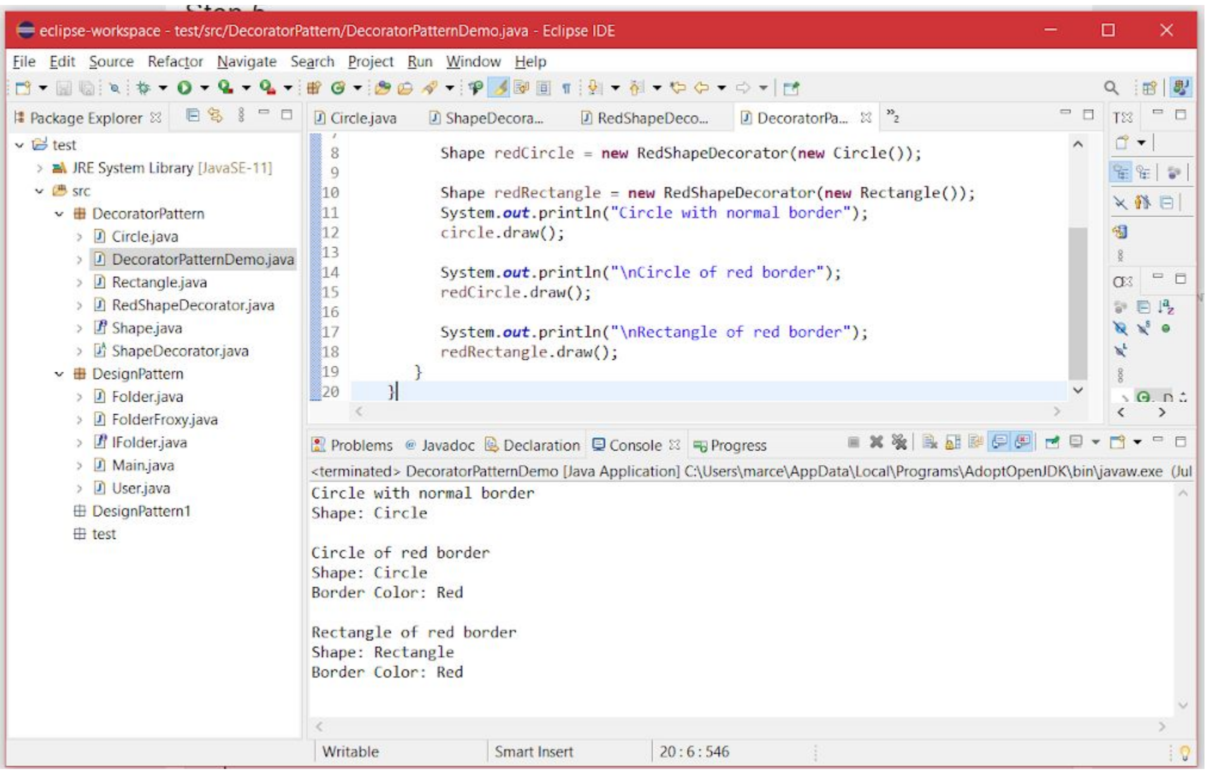
Proxy pattern



```
public static void main(String[] args){

    System.out.println("Ketika username dan password yang kamu
    User user = new User("leman","password");
    FolderFroxy folderFroxy = new FolderFroxy(user);
    folderFroxy.performOperations();

    System.out.println();

    System.out.println("Ketika username atau password yang ka
    User user2 = new User("abcd","abcd");
    FolderFroxy folderFroxy2 = new FolderFroxy(user2);
    folderFroxy2.performOperations();
```

```
<terminated> Main [Java Application] C:\Users\marce\AppData\Local\Programs\AdoptOpenJDK\bin\javaw.exe (Jul 10, 2020, 9:28:48 F
Ketika username dan password yang kamu inputkan benar :
Kamu sekarang sedang mengakses folder ....

Ketika username atau password yang kamu inputkan salah :
Kamu tidak diberi ijin untuk mengakses folder ini ....
```

Decorator Pattern



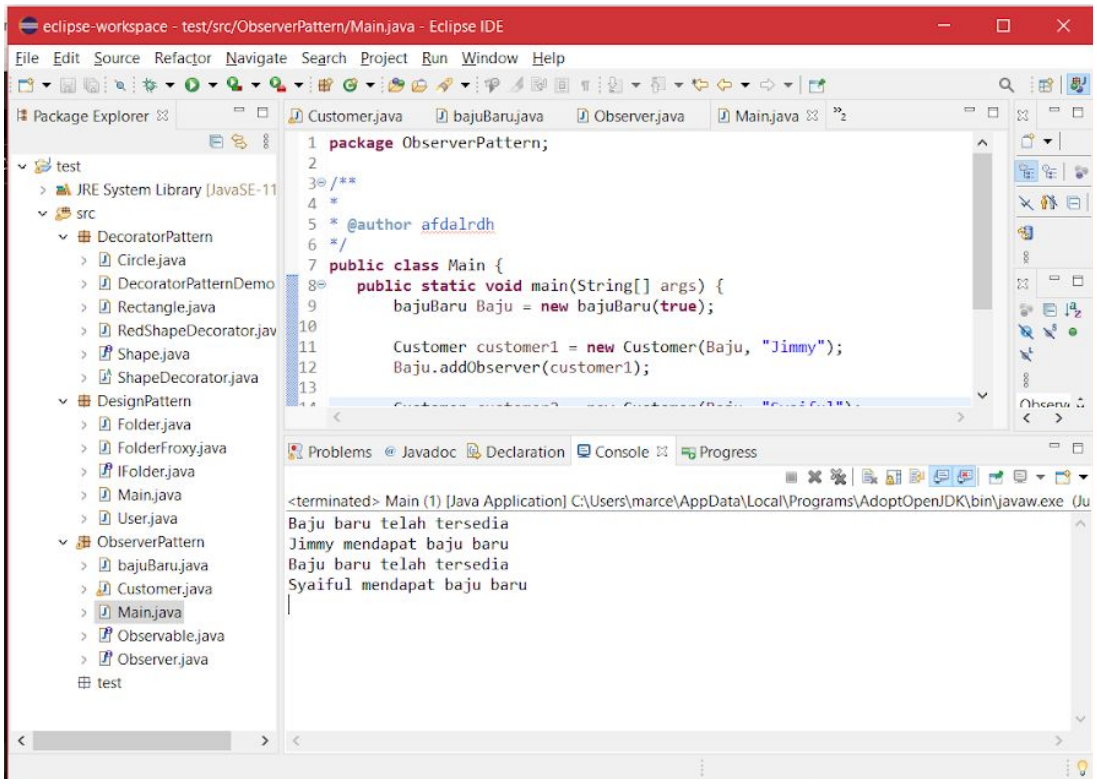
```
        Shape redCircle = new RedShapeDecorator(new Circle());

        Shape redRectangle = new RedShapeDecorator(new Rectangle());
        System.out.println("Circle with normal border");
        circle.draw();

        System.out.println("\nCircle of red border");
        redCircle.draw();

        System.out.println("\nRectangle of red border");
        redRectangle.draw();
    }
}
```

```
<terminated> DecoratorPatternDemo [Java Application] C:\Users\marce\AppData\Local\Programs\AdoptOpenJDK\bin\javaw.exe (Jul
Circle with normal border
Shape: Circle

Circle of red border
Shape: Circle
Border Color: Red

Rectangle of red border
Shape: Rectangle
Border Color: Red
```

Ref:https://www.tutorialspoint.com/design_pattern/decorator_pattern.htm

Output

Observer Pattern



eclipse-workspace - test/src/ObserverPattern/Main.java - Eclipse IDE

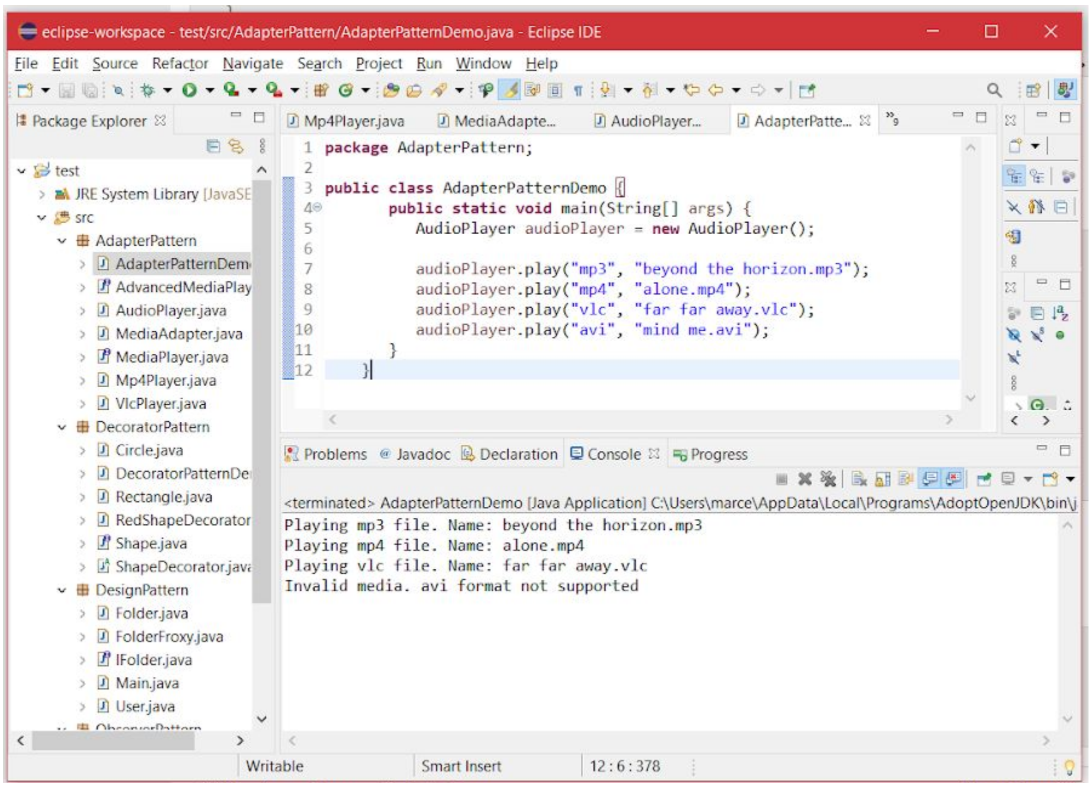
```java
package ObserverPattern;

/**
 *
 * @author afdalrdh
 */
public class Main {
    public static void main(String[] args) {
        bajuBaru Baju = new bajuBaru(true);

        Customer customer1 = new Customer(Baju, "Jimmy");
        Baju.addObserver(customer1);

        Customer customer2 = new Customer(Baju, "Syaiful");
```

<terminated> Main (1) [Java Application] C:\Users\marce\AppData\Local\Programs\AdoptOpenJDK\bin\javaw.exe (Ju

```
Baju baru telah tersedia
Jimmy mendapat baju baru
Baju baru telah tersedia
Syaiful mendapat baju baru
```

Ref: Afdal RDH program

Adapter Pattern



eclipse-workspace - test/src/AdapterPattern/AdapterPatternDemo.java - Eclipse IDE

```java
package AdapterPattern;

public class AdapterPatternDemo {
        public static void main(String[] args) {
           AudioPlayer audioPlayer = new AudioPlayer();

           audioPlayer.play("mp3", "beyond the horizon.mp3");
           audioPlayer.play("mp4", "alone.mp4");
           audioPlayer.play("vlc", "far far away.vlc");
           audioPlayer.play("avi", "mind me.avi");
        }
    }
```

<terminated> AdapterPatternDemo [Java Application] C:\Users\marce\AppData\Local\Programs\AdoptOpenJDK\bin\j

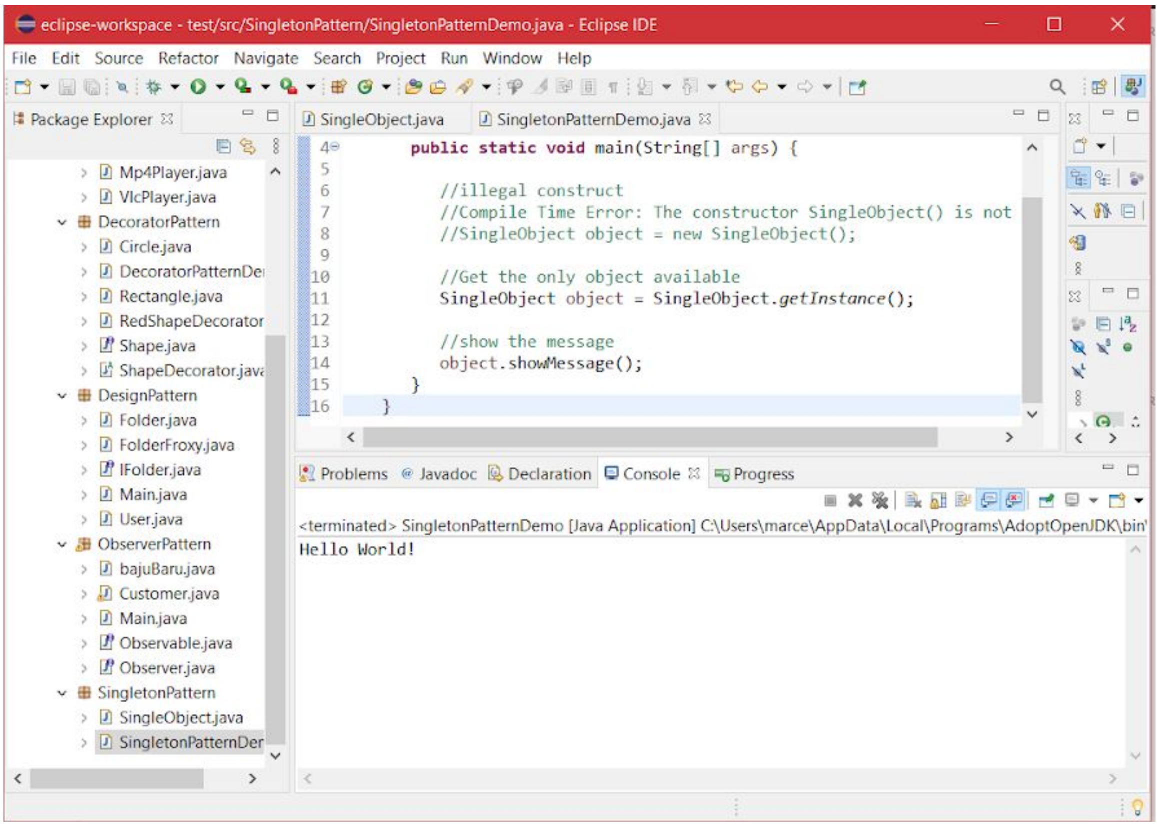
```
Playing mp3 file. Name: beyond the horizon.mp3
Playing mp4 file. Name: alone.mp4
Playing vlc file. Name: far far away.vlc
Invalid media. avi format not supported
```

Writable   Smart Insert   12 : 6 : 378

Ref: https://www.tutorialspoint.com/design_pattern/adapter_pattern.htm

Output

Singleton Pattern

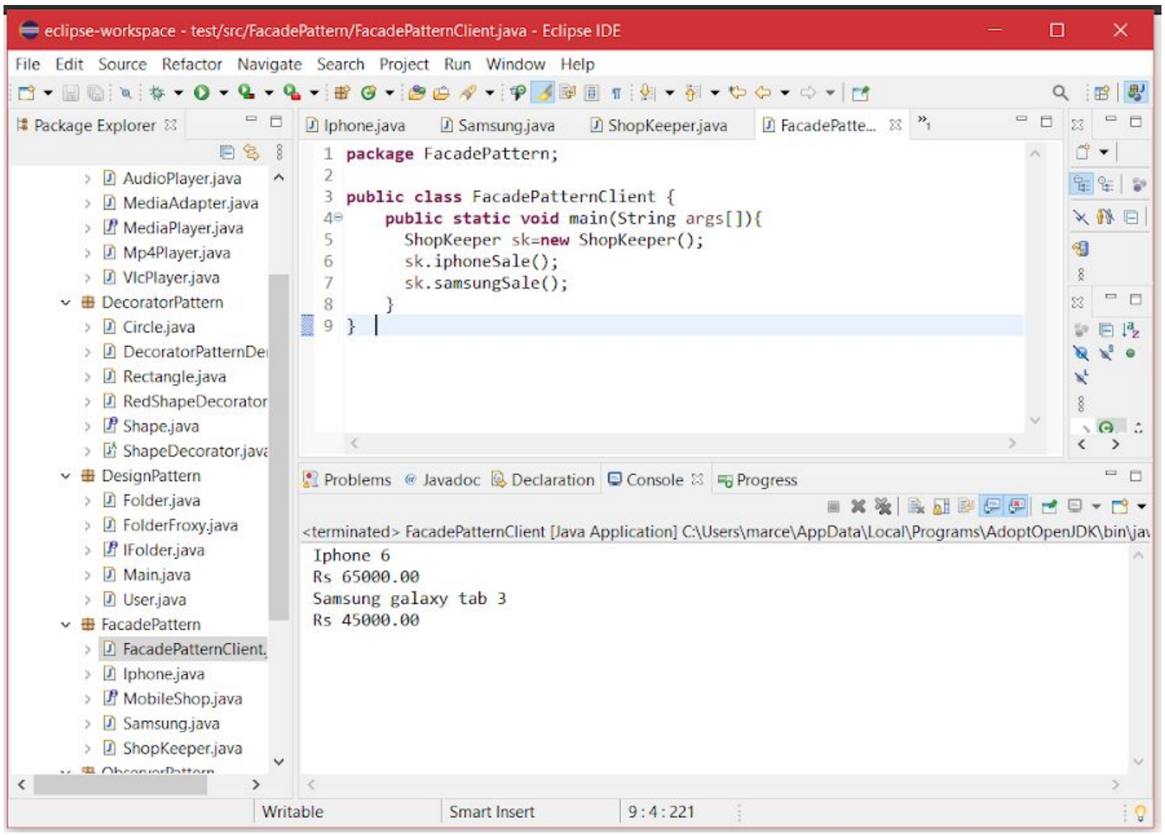

eclipse-workspace - test/src/SingletonPattern/SingletonPatternDemo.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
SingleObject.java
SingletonPatternDemo.java
Problems Javadoc Declaration Console Progress

```java
	public static void main(String[] args) {

		//illegal construct
		//Compile Time Error: The constructor SingleObject() is not
		//SingleObject object = new SingleObject();

		//Get the only object available
		SingleObject object = SingleObject.getInstance();

		//show the message
		object.showMessage();
	}
}
```

```
<terminated> SingletonPatternDemo [Java Application] C:\Users\marce\AppData\Local\Programs\AdoptOpenJDK\bin\
Hello World!
```

Ref: https://www.tutorialspoint.com/design_pattern/singleton_pattern.htm

Facade Pattern


eclipse-workspace - test/src/FacadePattern/FacadePatternClient.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
Iphone.java
Samsung.java
ShopKeeper.java
FacadePatte...
Problems Javadoc Declaration Console Progress
Writable
Smart Insert
9 : 4 : 221

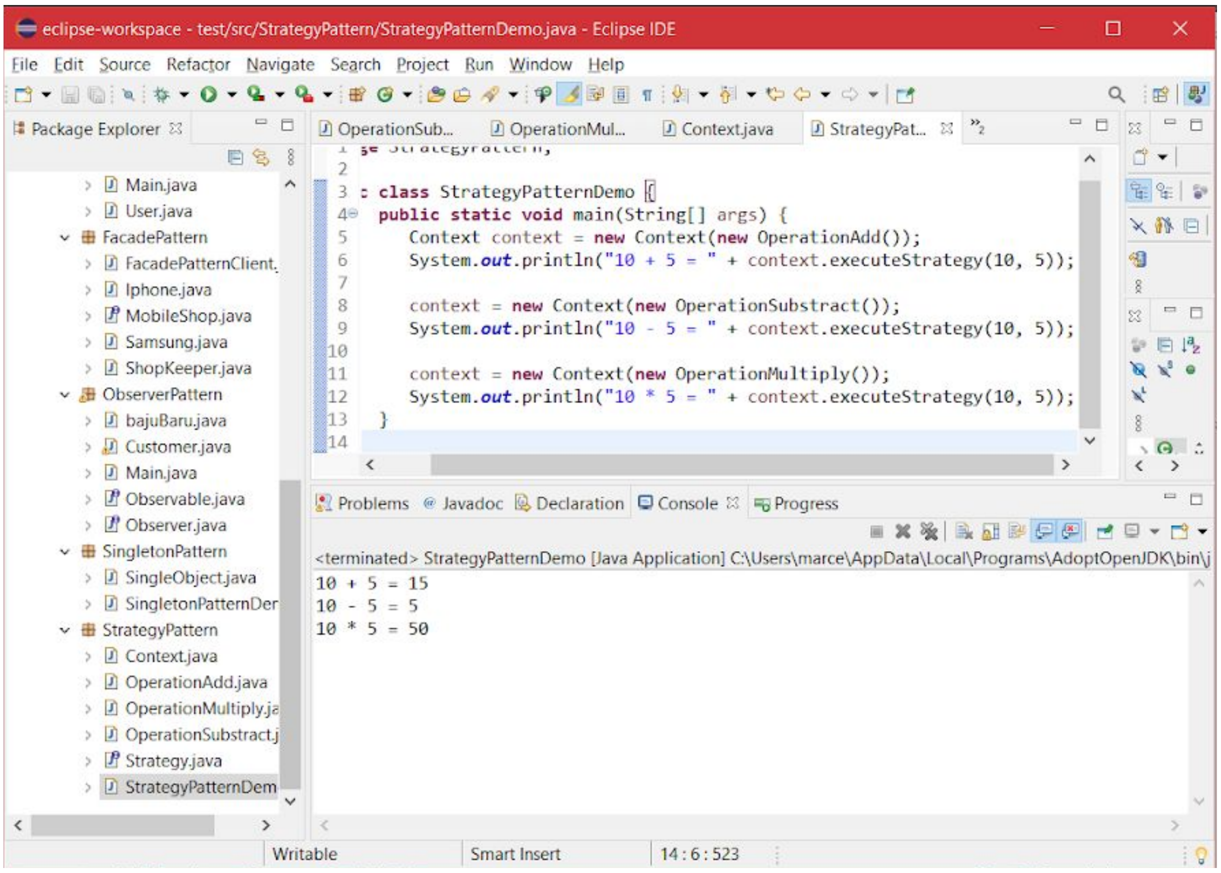
```java
package FacadePattern;

public class FacadePatternClient {
	public static void main(String args[]){
		ShopKeeper sk=new ShopKeeper();
		sk.iphoneSale();
		sk.samsungSale();
	}
}
```

```
<terminated> FacadePatternClient [Java Application] C:\Users\marce\AppData\Local\Programs\AdoptOpenJDK\bin\ja
Iphone 6
Rs 65000.00
Samsung galaxy tab 3
Rs 45000.00
```

Ref: https://medium.com/@bayupaoh/facade-pattern-design-pattern-fc000d593dcc

Output

Strategy Pattern



```java
se StrategyPattern;

: class StrategyPatternDemo {
 public static void main(String[] args) {
    Context context = new Context(new OperationAdd());
    System.out.println("10 + 5 = " + context.executeStrategy(10, 5));

    context = new Context(new OperationSubstract());
    System.out.println("10 - 5 = " + context.executeStrategy(10, 5));

    context = new Context(new OperationMultiply());
    System.out.println("10 * 5 = " + context.executeStrategy(10, 5));
 }
```

```
<terminated> StrategyPatternDemo [Java Application] C:\Users\marce\AppData\Local\Programs\AdoptOpenJDK\bin\j
10 + 5 = 15
10 - 5 = 5
10 * 5 = 50
```

Ref: https://www.tutorialspoint.com/design_pattern/strategy_pattern.htm