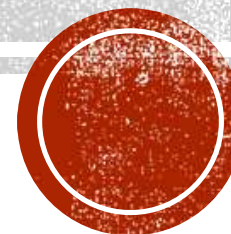


DECORATOR

Ever Hinojosa Aguirre



DECORATOR

- For the decorator and its encapsulating nature i wanted to do a PC building software as the pieces are added into a cabinet forming a pc and adding up the Price. All the pieces extending the component class which defines their name and prices and the get method for description and total cost.

```
Cabinet.java  Component.java  CoolingFan.java  Decorator.java x  MotherBoard.java  PCBuild.java
1
2 public abstract class Decorator extends Component {
3     public Component component;
4     public Decorator(Component component) {
5         this.component = component;
6     }
7
8     @Override
9     public String getDescription() {
10        return component.getDescription() + (component.getDescription().isEmpty() ? "" : ", "
11    }
12    @Override
13    public double getTotalCost() {
14        return component.getTotalCost() + accessoryPrice;
15    }
16 }
--
Problems  Javadoc  Declaration  Console x  Coverage
terminated> PCBuild [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_22.0.2.v2\
abinet $50.0
abinet, MotherBoard $150.0
abinet, MotherBoard, Graphics Card $350.0
abinet, MotherBoard, Graphics Card, Cooling Fan $410.0
```

```
1 public class PCBuild {
2
3
4     public static void main(String[] args) {
5
6         Component computer = new Cabinet();
7         System.out.println(computer.getDescription() + " $" + computer.getTotalCost());
8
9         Component motherBoardComputer = new MotherBoard(computer);
10        System.out.println(motherBoardComputer.getDescription() + " $" + motherBoardComputer.ge
11
12        Component graphicsCardComputer = new GraphicsCard(motherBoardComputer);
13        System.out.println(graphicsCardComputer.getDescription() + " $" + graphicsCardComputer.
14
15        Component fullyLoadedComputer = new CoolingFan(graphicsCardComputer);
16        System.out.println(fullyLoadedComputer.getDescription() + " $" + fullyLoadedComputer.ge
17    }
18 }
19
Problems  Javadoc  Declaration  Console x  Coverage
```