CSE-214 Online - 2 (B2) Structural Design Pattern

A computer system is composed of several basic hardware components, such as a CPU, memory, storage, and a graphics card. Each component has a base price. However, customers can choose to add optional features to these components, such as an *extended warranty, installation service*, or *performance boost*, each of which increases the price of the component. Use an appropriate design pattern to add features to components without altering the core classes. The core classes are given below.

```
// Component interface representing the basic hardware component
interface Component {
  double getPrice();
  String getDescription();
}
// Concrete Component representing individual hardware components
class HardwareComponent implements Component {
  private String name;
  private double price;
  public HardwareComponent(String name, double price) {
     this.name = name;
     this.price = price;
  }
  @Override
  public double getPrice() {
     return price;
  @Override
  public String getDescription() {
     return name;
}
```