

```
/*
```

```
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```

```
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```

```
* and open the template in the editor.
```

```
*/
```

```
package decorators;
```

```
/**
```

```
*
```

```
* @author fa20-bse-057
```

```
*/
```

```
public class ChickenBroast extends Order {
```

```
    public ChickenBroast(String description, double price) {
```

```
        super(description, price);
```

```
    }
```

```
    ChickenBroast() {
```

```
        throw new UnsupportedOperationException("Not supported yet."); //To change body of generated  
        methods, choose Tools | Templates.
```

```
    }
```

```
    @Override
```

```
    public void addItem(Order item) {
```

```
        throw new UnsupportedOperationException("Not supported yet."); //To change body of generated  
        methods, choose Tools | Templates.
```

```
    }
```

```
    @Override
```

```
public double getTotalPrice() {  
    throw new UnsupportedOperationException("Not supported yet."); //To change body of generated  
    methods, choose Tools | Templates.  
}  
  
}
```

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package decorators;
```

```
/**  
 *  
 * @author fa20-bse-057  
 */  
public class ChickenDecorator extends Order {  
    private Order order;  
  
    public ChickenDecorator(Order order) {  
        super("Chicken", 5);  
        this.order = order;  
    }  
  
    @Override  
    public void addItem(Order item) {
```

```

        this.order.addltem(item);
    }

    @Override
    public double getTotalPrice() {
        return this.order.getTotalPrice() + this.price;
    }
}

```

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package decorators;

```

```

/**
 *
 * @author fa20-bse-057
 */
public class ChineseRice extends Order {
    public ChineseRice() {
        super("Chinese Rice", 10);
    }
}

```

```

@Override
public void addltem(Order item) {

```

```
        throw new UnsupportedOperationException("Not supported yet."); //To change body of generated
methods, choose Tools | Templates.
```

```
    }
```

```
@Override
```

```
public double getTotalPrice() {
```

```
    throw new UnsupportedOperationException("Not supported yet."); //To change body of generated
methods, choose Tools | Templates.
```

```
    }
```

```
}
```

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```
package decorators;
```

```
import javafx.application.Application;
```

```
import javafx.event.ActionEvent;
```

```
import javafx.event.EventHandler;
```

```
import javafx.scene.Scene;
```

```
import javafx.scene.control.Button;
```

```
import javafx.scene.layout.StackPane;
```

```
import javafx.stage.Stage;
```

```
/**
```

```
 *
```

```
 * @author fa20-bse-057
```

```

*/

public class Decorators extends Application {

    @Override

    public void start(Stage primaryStage) {

        Button btn = new Button();

        btn.setText("Say 'Hello World'");

        btn.setOnAction(new EventHandler<ActionEvent>() {

            @Override

            public void handle(ActionEvent event) {

                System.out.println("Hello World!");

            }

        });

        StackPane root = new StackPane();

        root.getChildren().add(btn);

        Scene scene = new Scene(root, 300, 250);

        primaryStage.setTitle("Hello World!");

        primaryStage.setScene(scene);

        primaryStage.show();

    }

    /**
     * @param args the command line arguments
     */

    public static void main(String[] args) {

```

```

        launch(args);
    }

}

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/**
 *
 * @author fa20-bse-057
 */
public class Example {

    public static void main(String[] args) {

        Order order = new Order() {

            @Override

            public void addItem(Order item) {

                throw new UnsupportedOperationException("Not supported yet."); //To change body of
generated methods, choose Tools | Templates.

            }

            @Override

            public double getTotalPrice() {

```

throw new UnsupportedOperationException("Not supported yet."); //To change body of generated methods, choose Tools | Templates.

}

};

// Add a Chinese Rice with Chicken and Yogurt

order.addItem(new ChickenDecorator(new ChineseRice()));

order.addItem(new YogurtDecorator(new ChineseRice()));

// Add a Chicken Broast

order.addItem(new ChickenBroast());

// Add a Shawarma

order.addItem(new Shawarma());

// Add a Salad

order.addItem(new Salad());

// Get the total price of the order

double totalPrice = order.getTotalPrice();

System.out.println(totalPrice);

}

}

/*

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```

```
package decorators;
```

```
public abstract class Order {
```

```
    private String description;
```

```
    double price;
```

```
    public Order(String description, double price) {
```

```
        this.description = description;
```

```
        this.price = price;
```

```
    }
```

```
    public String getDescription() {
```

```
        return description;
```

```
    }
```

```
    public double getPrice() {
```

```
        return price;
```

```
    }
```

```
    public abstract void addItem(Order item);
```

```
    public abstract double getTotalPrice();
```

```
}
```

```
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/**

*

* @author fa20-bse-057

*/

public class Salad extends Order {

public Salad(String description, double price) {

super(description, price);

}

Salad() {

throw new UnsupportedOperationException("Not supported yet."); //To change body of generated methods, choose Tools | Templates.

}

@Override

public void addItem(Order item) {

throw new UnsupportedOperationException("Not supported yet."); //To change body of generated methods, choose Tools | Templates.

}

@Override

public double getTotalPrice() {

```
        throw new UnsupportedOperationException("Not supported yet."); //To change body of generated
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```

```
    }
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```

```
 */
```

```
public class Shawarma extends Order {
```

```
    public Shawarma(String description, double price) {
```

```
        super(description, price);
```

```
    }
```

```
    Shawarma() {
```

```
        throw new UnsupportedOperationException("Not supported yet."); //To change body of generated
methods, choose Tools | Templates.
```

```
    }
```

```
@Override

public void addItem(Order item) {

    throw new UnsupportedOperationException("Not supported yet."); //To change body of generated
methods, choose Tools | Templates.

}
```

```
@Override

public double getTotalPrice() {

    throw new UnsupportedOperationException("Not supported yet."); //To change body of generated
methods, choose Tools | Templates.

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```
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*

* @author fa20-bse-057

*/
```

```
public class YogurtDecorator extends Order {

    private Order order;
```

```
public YogurtDecorator(Order order) {  
    super("Yogurt", 3);  
    this.order = order;  
}  
  
@Override  
public void addItem(Order item) {  
    this.order.addItem(item);  
}  
  
@Override  
public double getTotalPrice() {  
    return this.order.getTotalPrice() + this.price;  
}  
}
```