

Decorator (Assignment 5 Unit Tests)

```

1 package edu.cpp.cs5800;
2
3 import org.junit.jupiter.api.Test;
4
5 import static org.junit.jupiter.api.Assertions.assertEquals;
6
7 public class OrderTest {
8     VeggieBurger veggieBurger = new VeggieBurger();
9     FishBurger fishBurger = new FishBurger();
10
11     @Test
12     public void testAddItem() {
13         Order order = new Order();
14         assertEquals(1, order.addItem(veggieBurger));
15         assertEquals(2, order.addItem(fishBurger));
16     }
17
18     @Test
19     public void testGetTotalPrice() {
20         Order order = new Order();
21         order.addItem(veggieBurger);
22         order.addItem(fishBurger);
23
24         double expected = veggieBurger.getPrice() + fishBurger.getPrice();
25         assertEquals(expected, order.getTotalPrice());
26     }
27
28     @Test
29     public void testGetOrderDetails() {
30         Order order = new Order();
31         order.addItem(veggieBurger);
32
33         String expected = "-----\nOrder No: #2\n
-----\nVeggie Burger      4.50\n-----\nTotal
4.50\n-----\n";
34         assertEquals(expected, order.getOrderDetails());
35     }
36 }
37

```

Decorator (Assignment 5 Unit Tests)

```
1 package edu.cpp.cs5800;  
2  
3 import org.junit.jupiter.api.Test;  
4  
5 import static org.junit.jupiter.api.Assertions.assertEquals;  
6  
7 public class FormatterTest {  
8  
9     @Test  
10    public void testFormat() {  
11        String expected = "Name          10.00\n";  
12        assertEquals(expected, Formatter.format("Name", 10.0));  
13    }  
14 }  
15
```

Decorator (Assignment 5 Unit Tests)

```
1 package edu.cpp.cs5800;
2
3 import org.junit.jupiter.api.Test;
4
5 import static org.junit.jupiter.api.Assertions.assertEquals;
6
7 public class FishBurgerTest {
8     FishBurger fishBurger = new FishBurger();
9
10    @Test
11    public void testGetPrice() {
12        assertEquals(6.0, fishBurger.getPrice());
13    }
14
15    @Test
16    public void testGetDescription() {
17        String expected = "Fish Burger        6.00\n";
18        assertEquals(expected, fishBurger.getDescription());
19    }
20 }
21
```

Decorator (Assignment 5 Unit Tests)

```
1 package edu.cpp.cs5800;
2
3 import org.junit.jupiter.api.Test;
4
5 import static org.junit.jupiter.api.Assertions.assertEquals;
6
7 public class VeggieBurgerTest {
8     VeggieBurger veggieBurger = new VeggieBurger();
9
10    @Test
11    public void testGetPrice() {
12        assertEquals(4.5, veggieBurger.getPrice());
13    }
14
15    @Test
16    public void testGetDescription() {
17        String expected = "Veggie Burger      4.50\n";
18        assertEquals(expected, veggieBurger.getDescription());
19    }
20 }
21
```

Decorator (Assignment 5 Unit Tests)

```
1 package edu.cpp.cs5800;
2
3 import org.junit.jupiter.api.Test;
4
5 import static org.junit.jupiter.api.Assertions.assertEquals;
6
7 public class ChickenBurgerTest {
8     ChickenBurger chickenBurger = new ChickenBurger();
9
10    @Test
11    public void testGetPrice() {
12        assertEquals(5.5, chickenBurger.getPrice());
13    }
14
15    @Test
16    public void testGetDescription() {
17        String expected = "Chicken Burger      5.50\n";
18        assertEquals(expected, chickenBurger.getDescription());
19    }
20 }
21
```

Decorator (Assignment 5 Unit Tests)

```
1 package edu.cpp.cs5800.addons;
2
3 import edu.cpp.cs5800.ChickenBurger;
4 import org.junit.jupiter.api.Test;
5
6 import static org.junit.jupiter.api.Assertions.assertEquals;
7
8 public class CheeseDecoratorTest {
9     ChickenBurger chickenBurger = new ChickenBurger();
10    AddOnDecorator decorator = new LettuceDecorator(chickenBurger);
11
12    @Test
13    public void testGetPrice() {
14        assertEquals(5.5 + 0.5, decorator.getPrice());
15    }
16
17    @Test
18    public void testGetDescription() {
19        String expected = "Chicken Burger      5.50\n+ Lettuce      0.50\n";
20        assertEquals(expected, decorator.getDescription());
21    }
22 }
23
```

Decorator (Assignment 5 Unit Tests)

```
1 package edu.cpp.cs5800.addons;
2
3 import edu.cpp.cs5800.ChickenBurger;
4 import org.junit.jupiter.api.Test;
5
6 import static org.junit.jupiter.api.Assertions.assertEquals;
7
8 public class TomatoDecoratorTest {
9     ChickenBurger chickenBurger = new ChickenBurger();
10    AddOnDecorator decorator = new TomatoDecorator(chickenBurger);
11
12    @Test
13    public void testGetPrice() {
14        assertEquals(5.5 + 1.0, decorator.getPrice());
15    }
16
17    @Test
18    public void testGetDescription() {
19        String expected = "Chicken Burger      5.50\n+ Tomato      1.00\n";
20        assertEquals(expected, decorator.getDescription());
21    }
22 }
23
```

Decorator (Assignment 5 Unit Tests)

```
1 package edu.cpp.cs5800.addons;
2
3 import edu.cpp.cs5800.ChickenBurger;
4 import org.junit.jupiter.api.Test;
5
6 import static org.junit.jupiter.api.Assertions.assertEquals;
7
8 public class LettuceDecoratorTest {
9     ChickenBurger chickenBurger = new ChickenBurger();
10    AddOnDecorator decorator = new LettuceDecorator(chickenBurger);
11
12    @Test
13    public void testGetPrice() {
14        assertEquals(5.5 + 0.5, decorator.getPrice());
15    }
16
17    @Test
18    public void testGetDescription() {
19        String expected = "Chicken Burger      5.50\n+ Lettuce      0.50\n";
20        assertEquals(expected, decorator.getDescription());
21    }
22 }
23
```


Decorator (Assignment 5 Unit Tests)

```
1 package edu.cpp.cs5800.addons;
2
3 import edu.cpp.cs5800.ChickenBurger;
4 import org.junit.jupiter.api.Test;
5
6 import static org.junit.jupiter.api.Assertions.assertEquals;
7
8 public class PicklesDecoratorTest {
9     ChickenBurger chickenBurger = new ChickenBurger();
10    AddOnDecorator decorator = new PicklesDecorator(chickenBurger);
11
12    @Test
13    public void testGetPrice() {
14        assertEquals(5.5 + 1.2, decorator.getPrice());
15    }
16
17    @Test
18    public void testGetDescription() {
19        String expected = "Chicken Burger      5.50\n+ Pickles      1.20\n";
20        assertEquals(expected, decorator.getDescription());
21    }
22 }
23
```

Decorator (Assignment 5 Unit Tests)

```
1 package edu.cpp.cs5800.customer;
2
3 import edu.cpp.cs5800.Formatter;
4 import org.junit.jupiter.api.Test;
5
6 import static org.junit.jupiter.api.Assertions.assertEquals;
7
8 public class TestCustomer {
9     Customer customer = new Customer();
10
11     @Test
12     public void testGetDiscountPercentage() {
13         assertEquals(0.0, customer.getDiscountPercentage());
14     }
15
16     @Test
17     public void testApplyLoyaltyDiscount() {
18         String expected = Formatter.format("After 0% Discount:",10.0);
19         assertEquals(expected, customer.applyLoyaltyDiscount(10.0));
20     }
21 }
22
```

Decorator (Assignment 5 Unit Tests)

```
1 package edu.cpp.cs5800.customer;
2
3 import edu.cpp.cs5800.Formatter;
4 import org.junit.jupiter.api.Test;
5
6 import static org.junit.jupiter.api.Assertions.assertEquals;
7
8 public class TestGoldCustomer {
9     Customer customer = new GoldCustomer();
10
11     @Test
12     public void testGetDiscountPercentage() {
13         assertEquals(15.0, customer.getDiscountPercentage());
14     }
15
16     @Test
17     public void testApplyLoyaltyDiscount() {
18         String expected = Formatter.format("After 15% Discount:", 8.5);
19         assertEquals(expected, customer.applyLoyaltyDiscount(10.0));
20     }
21 }
22
```

Decorator (Assignment 5 Unit Tests)

```
1 package edu.cpp.cs5800.customer;
2
3 import edu.cpp.cs5800.Formatter;
4 import org.junit.jupiter.api.Test;
5
6 import static org.junit.jupiter.api.Assertions.assertEquals;
7
8 public class TestSilverCustomer {
9     Customer customer = new SilverCustomer();
10
11     @Test
12     public void testGetDiscountPercentage() {
13         assertEquals(10.0, customer.getDiscountPercentage());
14     }
15
16     @Test
17     public void testApplyLoyaltyDiscount() {
18         String expected = Formatter.format("After 10% Discount:", 9.0);
19         assertEquals(expected, customer.applyLoyaltyDiscount(10.0));
20     }
21 }
22
```

Decorator (Assignment 5 Unit Tests)

```
1 package edu.cpp.cs5800.customer;
2
3 import edu.cpp.cs5800.Formatter;
4 import org.junit.jupiter.api.Test;
5
6 import static org.junit.jupiter.api.Assertions.assertEquals;
7
8 public class TestPlatinumCustomer {
9     Customer customer = new PlatinumCustomer();
10
11     @Test
12     public void testGetDiscountPercentage() {
13         assertEquals(20.0, customer.getDiscountPercentage());
14     }
15
16     @Test
17     public void testApplyLoyaltyDiscount() {
18         String expected = Formatter.format("After 20% Discount:", 8.0);
19         assertEquals(expected, customer.applyLoyaltyDiscount(10.0));
20     }
21 }
22
```