**Test Case 1: Default Discount**

| **Test Case ID** | **Input** | **Expected Output** |
| --- | --- | --- |
| 1.1 | Base Price: 100, Quantity: 10, Loyalty Level: 1 | 950 |
| 1.2 | Base Price: 200, Quantity: 5, Loyalty Level: 1 | 950 |
| 1.3 | Base Price: 50, Quantity: 20, Loyalty Level: 1 | 950 |

**Test Case 2: Loyalty Tier 2**

| **Test Case ID** | **Input** | **Expected Output** |
| --- | --- | --- |
| 2.1 | Base Price: 100, Quantity: 10, Loyalty Level: 2 | 900 |
| 2.2 | Base Price: 200, Quantity: 5, Loyalty Level: 2 | 900 |
| 2.3 | Base Price: 50, Quantity: 20, Loyalty Level: 2 | 900 |

**Test Case 3: Loyalty Tier 3**

| **Test Case ID** | **Input** | **Expected Output** |
| --- | --- | --- |
| 3.1 | Base Price: 100, Quantity: 10, Loyalty Level: 3 | 800 |
| 3.2 | Base Price: 200, Quantity: 5, Loyalty Level: 3 | 800 |
| 3.3 | Base Price: 50, Quantity: 20, Loyalty Level: 3 | 800 |

**Test Case 4: Bulk Discount**

| **Test Case ID** | **Input** | **Expected Output** |
| --- | --- | --- |
| 4.1 | Base Price: 100, Quantity: 25, Loyalty Level: 1 | 2250 |
| 4.2 | Base Price: 200, Quantity: 30, Loyalty Level: 1 | 5700 |
| 4.3 | Base Price: 50, Quantity: 40, Loyalty Level: 1 | 1800 |

**Test Case 5: Combined Loyalty and Bulk Discount**

| **Test Case ID** | **Input** | **Expected Output** |
| --- | --- | --- |
| 5.1 | Base Price: 100, Quantity: 25, Loyalty Level: 3 | 1500 |
| 5.2 | Base Price: 200, Quantity: 30, Loyalty Level: 2 | 4050 |
| 5.3 | Base Price: 50, Quantity: 40, Loyalty Level: 3 | 1200 |

**Test Case 6: Negative Scenarios**

| **Test Case ID** | **Input** | **Expected Output** |
| --- | --- | --- |
| 6.1 | Base Price: 0, Quantity: 10, Loyalty Level: 1 | 0 |
| 6.2 | Base Price: 100, Quantity: 0, Loyalty Level: 1 | 0 |
| 6.3 | Base Price: -100, Quantity: 10, Loyalty Level: 1 | Error |
| 6.4 | Base Price: 100, Quantity: -10, Loyalty Level: 1 | Error |
| 6.5 | Base Price: 100, Quantity: 10, Loyalty Level: 4 | Error |