

## Output Screenshots:

### ▼ TERMINAL

```
C:\Users\Varshaa E\OneDrive\Desktop\task1>javac ecommerce\*.java
Picked up JAVA_TOOL_OPTIONS: -Dstdout.encoding=UTF-8 -Dstderr.encoding=UTF-8
```

```
C:\Users\Varshaa E\OneDrive\Desktop\task1>java ecommerce.Main
Picked up JAVA_TOOL_OPTIONS: -Dstdout.encoding=UTF-8 -Dstderr.encoding=UTF-8
=== Observer Pattern ===
Stocking product...
Hello Alice, iPhone 16 is now available!
Hello Bob, iPhone 16 is now available!
```

```
=== Strategy Pattern ===
Paid $2500.0 via Credit Card.
Paid $1000.0 via UPI.
```

```
=== Singleton Pattern ===
Cart Items: [Laptop, Headphones]
Are both carts same? true
```

```
=== Factory Pattern ===
Electronics Product
Clothing Product
```

```
=== Adapter Pattern ===
Processing payment in OUR system: Order#123 $500
Third-party Gateway: Order#124 $1000
```

```
=== Decorator Pattern ===
Basic Order $100.0
Basic Order, Gift Wrapped, Express Delivery $170.0
```

```
Are both carts same? true
```

```
=== Factory Pattern ===
Electronics Product
Clothing Product
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=== Adapter Pattern ===
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=== Decorator Pattern ===
Basic Order $100.0
Basic Order, Gift Wrapped, Express Delivery $170.0
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