

```
package beverages; // Adjust the package name accordingly
         public final void finalTemplateMethod() {...}
            this.wantsExtras = wantsExtras;
         public void boilWater() { 1usage

    BeverageTest.java

       package beverages;
       class Tea extends Beverages { 2 usages
          void addCondiments() {
          System.out.println("Adding lemon");
          H
             System.out.println("Adding honey");
```

```
© Coffee.java × ® BeverageTest.java
       package beverages;
        class Coffee extends Beverages { 2 usages
           void brew() {
               System.out.println("Dripping coffee through filter");
               System.out.println("Adding vanilla syrup");
Beverages.java
                                  Coffee.java
                                                    ⑥ BeverageTest.java ×
       package beverages;
      public class BeverageTest {
           public static void main(String[] args) {
               Scanner scanner = new Scanner(System.in);
               Tea tea = new Tea();
               Coffee coffee = new Coffee();
               String teaExtras = scanner.nextLine().trim().toLowerCase();
               tea.setWantsExtras(teaExtras.equals("yes"));
               String coffeeExtras = scanner.nextLine().trim().toLowerCase();
               coffee.setWantsExtras(coffeeExtras.equals("yes"));
               System.out.println("\nMaking tea...");
               tea.finalTemplateMethod();
               coffee.finalTemplateMethod();
```



```
© Square.java × © Circle.java
                                               Rectangle.java
                                                                                          ShapeFactory.java
                                                                                                                   ShapeTest.java
                                                                     Triangle.java
package shapes;
public class Square implements Shape { 1usage
    public void draw() {
         System.out.println("Square:");
              System.out.println();
H
                             \bigcirc Circle.java \times \bigcirc Rectangle.java
                                                                     © Triangle.java
package shapes;
public class Circle implements Shape { 1usage
         System.out.println("Circle:");
                  double distance = Math.sqrt((\underline{i} - radius) * (\underline{i} - radius) + (\underline{j} - radius) * (\underline{j} - radius));
                  if (distance > radius - 0.5 && distance < radius + 0.5) {
```

```
Shape.java
               © Square.java
                                © Circle.java
                                                © Rectangle.java ×
                                                                                     ShapeFactory.java
                                                                                                           ShapeTest.java
      package shapes;
      public class Rectangle implements Shape { 1usage
              System.out.println("Rectangle:");
                      System.out.print("* ");
                  System.out.println();
                                                                  © Triangle.java × © ShapeFactory.java
               Square.java
                                               Rectangle.java
     package shapes;
     public class Triangle implements Shape { 1usage
         public void draw() {
              System.out.println("Triangle:");
                  System.out.println();
```

```
Shape.java
                © Square.java
                                 Circle.java
                                                 © Rectangle.java
                                                                                     package shapes;
           public Shape getShape(String shapeType) { 4 usages
               if (shapeType == null) {
                   return null;
               if (shapeType.equalsIgnoreCase( anotherString: "SQUARE")) {
                   return new Square();
               } else if (shapeType.equalsIgnoreCase( anotherString: "CIRCLE")) {
                   return new Circle();
               } else if (shapeType.equalsIgnoreCase( anotherString: "RECTANGLE")) {
                   return new Rectangle();
               } else if (shapeType.equalsIgnoreCase( anotherString: "TRIANGLE")) {
                   return new shapes.Triangle();
Shape.java
                © Square.java
                                 © Circle.java
                                                                                     © ShapeFactory.java

₲ ShapeTest.java ×

           public static void main(String[] args) {
              Shape shape1 = shapeFactory.getShape( shapeType: "SQUARE");
              Shape shape3 = shapeFactory.getShape( shapeType: "RECTANGLE");
               Shape shape4 = shapeFactory.getShape( shapeType: "INVALID_SHAPE");
```



```
public class LightOnCommand implements Command { 2 usages private Light light; 3 usages
public class LightOffCommand implements Command { 2 usages
private Light light; 3 usages
 public class LightDimCommand implements Command { 4 usages
private Light Light; 4 usages
private int previousEnjointess; 2 usages
private int nemSCightness; 2 usages
```

```
package lightcontrol;
public class RemoteControl { 2 usages
    private Command[] commands; 5 usages
    private Command lastCommand; 3 usages
                if (commands[slot] != null) {
    commands[slot].execute();
    lastCommand = commands[slot];
 package lightcontrol;
```

```
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```