

## Template Method Pattern

하위 클래스에서 구체적으로 처리.

- 상위 클래스에서 처리의 뼈대를 세우고, 구체적인 처리를 하위 클래스에서 실행.

[Architecture](#), [Modeling](#), [DesignPattern](#), [Behavioral](#)

GUI 앱에서 Menu, Sidebar를 열기/닫기/크기 얻기 동작을 한다고 가정.

### AbstractClass

```
/**
 * Template 역할
 */
public abstract class AbstractLayout {
    private int width;
    private int height;
    public AbstractLayout(int width, int height) {
        this.width = width;
        this.height = height;
    }
    public abstract void open();
    public abstract void close();
    public final int[] getMesasure() {
        return new int[] {width, height};
    }
}
```

### ConcreteClass

```
public class MenuLayout extends AbstractLayout {

    public MenuLayout(int width, int height) {
        super(width, height);
    }

    @Override
    public void open() {
        System.out.println("Menu opened!");
    }

    @Override
    public void close() {
```

```
        System.out.println("Menu closed!");  
    }  
}
```

```
public class SidebarLayout extends AbstractLayout {  
  
    public SidebarLayout(int width, int height) {  
        super(width, height);  
    }  
  
    @Override  
    public void open() {  
        System.out.println("Sidebar opened!");  
    }  
  
    @Override  
    public void close() {  
        System.out.println("Sidebar closed!");  
    }  
}
```

## 실행

```
public class Main {  
    public static void main(String[] args) {  
        AbstractLayout menuLayout = new MenuLayout(100, 100);  
        AbstractLayout sidebarLayout = new SidebarLayout(100, 500);  
        print(menuLayout);  
        print(sidebarLayout);  
    }  
    private static void print(AbstractLayout layout) {  
        layout.open();  
        layout.close();  
        for(int value : layout.getMesasure()) {  
            System.out.println(value);  
        }  
        System.out.println();  
    }  
}  
  
/*  
Menu opened!  
Menu closed!
```

```
100
```

```
100
```

```
Sidebar opened!
```

```
Sidebar closed!
```

```
100
```

```
500
```

```
*/
```

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