In Template pattern, an abstract class exposes defined ways/templates to execute its methods. Its subclasses can override the method implementation as per need but the invocation is to be in the same way as defined by an abstract class. This pattern comes under behavior pattern category.

**Implementation**

We are going to create a `Game` abstract class defining operations with a template method set to be final so that it cannot be overridden. `Cricket` and `Football` are concrete classes that extend `Game` and override its methods.

`TemplatePatternDemo`, our demo class, will use `Game` to demonstrate use of template pattern.

**Step 1**

Create an abstract class with a template method being final.

`Game.java`

```java
public abstract class Game {
    abstract void initialize();
    abstract void startPlay();
    abstract void endPlay();

    //template method
    public final void play(){
        //initialize the game
        initialize();

        //start game
        startPlay();

        //end game
        endPlay();
    }
}
```
Step 2
Create concrete classes extending the above class.

**Cricket.java**

```java
public class Cricket extends Game {
    @Override
    void endPlay() {
        System.out.println("Cricket Game Finished!");
    }

    @Override
    void initialize() {
        System.out.println("Cricket Game Initialized! Start playing.");
    }

    @Override
    void startPlay() {
        System.out.println("Cricket Game Started. Enjoy the game!");
    }
}
```

**Football.java**

```java
public class Football extends Game {
    @Override
    void endPlay() {
        System.out.println("Football Game Finished!");
    }

    @Override
    void initialize() {
        System.out.println("Football Game Initialized! Start playing.");
    }

    @Override
    void startPlay() {
        System.out.println("Football Game Started. Enjoy the game!");
    }
}
```

**Step 3**
Use the Game's template method play to demonstrate a defined way of playing game.

**TemplatePatternDemo.java**

```java
public class TemplatePatternDemo {
    public static void main(String[] args) {
        Game game = new Cricket();
        game.play();
        System.out.println();
        game = new Football();
        game.play();
    }
}
```

**Step 4**
Verify the output.

```
Cricket Game Initialized! Start playing.
```
Cricket Game Started. Enjoy the game!
Cricket Game Finished!

Football Game Initialized! Start playing.
Football Game Started. Enjoy the game!
Football Game Finished!

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