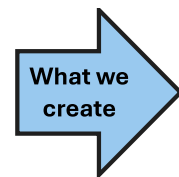




ForeignImplementation

ITargetInterface



ForeignToTargetAdapter

Problem: Compatibility issues

Solution -> We adapt foreign class to the guidelines of the target

Respected SOLID Principles:
Single-Responsability -> Adapter class has the responsibility to adapt.
Open-Closed -> Adapter Class is open to extension, closed for modification. (We can make multiple adaptors)

```
public interface ITargetInterface {  
    void printSomething(String data);  
}
```

```
public class ForeignImplementation {  
    void printSomethingElse(int data) {  
        System.out.println("Our current understanding is: " + data);  
    }  
}
```

Inheritance

Composition

Adapt our method to give expected results by using foreign methods

Make foreign method give expected results

```
public class ForeignToTargetAdapter implements ITargetInterface {  
    private final ForeignImplementation foreignImplementation;
```

```
    public ForeignToTargetAdapter(ForeignImplementation foreignImplementation) {  
        this.foreignImplementation = foreignImplementation;  
    }
```

```
    public void printSomething(String outsideData) {  
        Integer innerData;  
        String notFoundMessage = "Error 404: Data not found";  
  
        if(outsideData != null) innerData = outsideData.hashCode();  
        else innerData = notFoundMessage.hashCode();  
        foreignImplementation.printSomethingElse(innerData);  
    }  
}
```

Some code to make existing input adapted with foreign class