Exercise 8: Basic AOP

```
Exercise 8: Basic AOP with Spring
Generated: 2025-07-06 09:49


Scenario:
Use AOP to log before and after every service method.
```

1. LoggingAspect.java

```java
@Aspect
@Component
public class LoggingAspect {

    @Before("execution(* com.library.service.*.*(..))")
    public void beforeAdvice(JoinPoint jp) {
        System.out.println("Before " + jp.getSignature());
    }

    @After("execution(* com.library.service.*.*(..))")
    public void afterAdvice(JoinPoint jp) {
        System.out.println("After " + jp.getSignature());
    }
}
```

2. applicationContext.xml

```xml
<context:component-scan base-package="com.library"/>
<aop:aspectj-autoproxy/>
```

3. Expected output:

```
Before void com.library.service.BookService.perform()
BookService: perform() called
BookRepository: Display method called
After void com.library.service.BookService.perform()
```