一，后置通知

1，配置文件

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
	xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:aop="http://www.springframework.org/schema/aop"
	xmlns:context="http://www.springframework.org/schema/context"
	xmlns:jdbc="http://www.springframework.org/schema/jdbc"
xmlns:jee="http://www.springframework.org/schema/jee"
	xmlns:tx="http://www.springframework.org/schema/tx"
xmlns:util="http://www.springframework.org/schema/util"
	xmlns:task="http://www.springframework.org/schema/task"
	xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans-4.0.xsd
	http://www.springframework.org/schema/aop
http://www.springframework.org/schema/aop/spring-aop-4.0.xsd
	http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context-4.0.xsd
	http://www.springframework.org/schema/jdbc
http://www.springframework.org/schema/jdbc/spring-jdbc-4.0.xsd
	http://www.springframework.org/schema/jee
http://www.springframework.org/schema/jee/spring-jee-4.0.xsd
	http://www.springframework.org/schema/tx
http://www.springframework.org/schema/tx/spring-tx-4.0.xsd
	http://www.springframework.org/schema/util
http://www.springframework.org/schema/util/spring-util-4.0.xsd
	http://www.springframework.org/schema/task
http://www.springframework.org/schema/task/spring-task-4.0.xsd"
	default-lazy-init="false">
	<!-- 开启注解扫描,base-package的值就是需要进行注解开发的类所在的包，若只有俩三个包的话，可以写cn.java或者cn （1）到指定的包中扫描类、方法、属性上是否有注解 -->
	<context:component-scan base-package="cn.java"></context:component-scan>
	<!-- 配置对象 -->
	<bean id="book" class="cn.java.aop.Book"></bean>
	<bean id="mybook" class="cn.java.aop.My_Book"></bean>
	<!-- 配置aop配置 -->
	<aop:config proxy-target-class="true">
		<!-- 配置切入点 -->
		<aop:pointcut expression="execution(* cn.java.aop.Book.*(..))"
			id="MypointCut" />
		<!-- 配置切面 :把增强用到方法上去 -->
		<aop:aspect ref="mybook">
			<!-- 配置增强类型： method：增强类里面使用哪个方法作为前置 -->
			<aop:before method="before1" pointcut-ref="MypointCut" />
			<!-- 后置增强 -->
			<aop:after-returning method="after_mehtod" pointcut-
ref="MypointCut"/>
		</aop:aspect>
	</aop:config>
</beans>
```

2，book实体类

```
package cn.java.aop;
public class Book {
public void add(){
	System.out.println("add...........");
}
}
```

3，my_book实体类

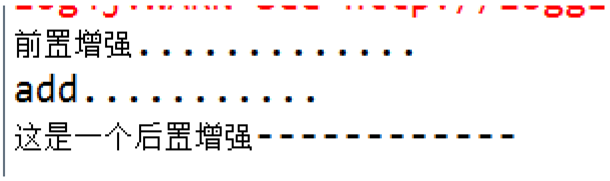
```
package cn.java.aop;
public class My_Book {
public void before1(){
	System.out.println("前置增强.............");
}
public void after_mehtod(){
	System.out.println("这是一个后置增强------------");
}
}
```

4，测试代码

```
package cn.java.aop;
import org.junit.Test;
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;

public class test {
	@Test
	public void t1() {
		ApplicationContext context = new
ClassPathXmlApplicationContext("application.xml");
		Book book = (Book) context.getBean("book");
		book.add();
	}
}
```

5，运行结果截图



```
前置增强.............
add...........
这是一个后置增强------------
```

二，环绕通知

1，application.xml配置文件

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:aop="http://www.springframework.org/schema/aop"
    xmlns:context="http://www.springframework.org/schema/context"
    xmlns:jdbc="http://www.springframework.org/schema/jdbc"
xmlns:jee="http://www.springframework.org/schema/jee"
    xmlns:tx="http://www.springframework.org/schema/tx"
xmlns:util="http://www.springframework.org/schema/util"
    xmlns:task="http://www.springframework.org/schema/task"
    xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans-4.0.xsd
    http://www.springframework.org/schema/aop
http://www.springframework.org/schema/aop/spring-aop-4.0.xsd
    http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context-4.0.xsd
    http://www.springframework.org/schema/jdbc
http://www.springframework.org/schema/jdbc/spring-jdbc-4.0.xsd
    http://www.springframework.org/schema/jee
http://www.springframework.org/schema/jee/spring-jee-4.0.xsd
    http://www.springframework.org/schema/tx
http://www.springframework.org/schema/tx/spring-tx-4.0.xsd
    http://www.springframework.org/schema/util
http://www.springframework.org/schema/util/spring-util-4.0.xsd
    http://www.springframework.org/schema/task
http://www.springframework.org/schema/task/spring-task-4.0.xsd"
    default-lazy-init="false">
    <!-- 开启注解扫描,base-package的值就是需要进行注解开发的类所在的包，若只有
俩三个包的话，可以写cn.java或者cn （1）到指定的包中扫描类、方法、属性上是否有注解
-->
    <context:component-scan base-package="cn.java"></context:component-
scan>
    <!-- 配置对象 -->
    <bean id="book" class="cn.java.aop.Book"></bean>
    <bean id="mybook" class="cn.java.aop.My_Book"></bean>
    <!-- 配置aop配置 -->
    <aop:config proxy-target-class="true">
        <!-- 配置切入点 -->
        <aop:pointcut expression="execution(* cn.java.aop.Book.*(..))"
            id="MypointCut" />
        <!-- 配置切面 :把增强用到方法上去 -->
        <aop:aspect ref="mybook">
            <!-- 配置增强类型： method：增强类里面使用哪个方法作为前置 -->
            <aop:before method="before1" pointcut-ref="MypointCut" />
            <!-- 后置增强 -->
            <aop:after-returning method="after_mehtod" pointcut-
ref="MypointCut"/>
            <!-- 环绕增强 -->
            <aop:around method="around1" pointcut-ref="MypointCut"/>
        </aop:aspect>
    </aop:config>
</beans>
```

2，book实体类

```
package cn.java.aop;
public class Book {
public void add(){
    System.out.println("add...........");
}
}
```

3，my_book实体类

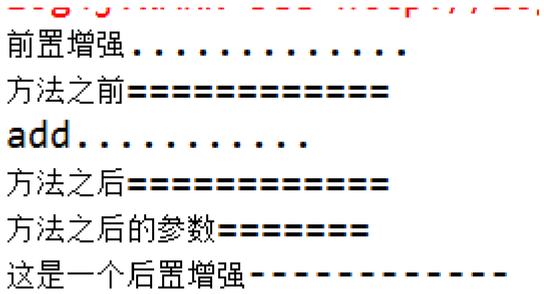
```
package cn.java.aop;
import org.aspectj.lang.ProceedingJoinPoint;
public class My_Book {
    public void before1() {
        System.out.println("前置增强.............");
    }
    public void after_mehtod() {
        System.out.println("这是一个后置增强------------");
    }
    // 环绕通知
    public void around1(ProceedingJoinPoint proceedingJoinPoint) throws
Throwable {
        //方法之前
        System.out.println("方法之前=============");
        //执行被增强的方法
        proceedingJoinPoint.proceed();
        //方法之后
        System.out.println("方法之后=============");
        test_around();
    }
    public void test_around(){
        System.out.println("方法之后的参数=======");
    }
}
```

4，测试代码

```
package cn.java.aop;
import org.junit.Test;
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
```

```
public class test {
	@Test
	public void t1() {
		ApplicationContext context = new
ClassPathXmlApplicationContext("application.xml");
		Book book = (Book) context.getBean("book");
		book.add();
	}
}
```

5，测试运行结果



```
前置增强.............
方法之前============
add...........
方法之后============
方法之后的参数=======
这是一个后置增强------------
```