

```
package aop;

import org.aspectj.lang.JoinPoint;
import org.aspectj.lang.ProceedingJoinPoint;
import org.aspectj.lang.annotation.After;
import org.aspectj.lang.annotation.AfterThrowing;
import org.aspectj.lang.annotation.Around;
import org.aspectj.lang.annotation.Aspect;
import org.aspectj.lang.annotation.Before;
import org.springframework.core.annotation.Order;
import org.springframework.stereotype.Component;

@Aspect
@Component
@Order(5)
public class LogAspect {
    public LogAspect() {
        System.out.println("LogAspect()");
    }

    // Before Advice
    @Before(value = "execution (* aop.OrderService.*(..))" // pointcut
    public void beforeAdviceMethod(JoinPoint jp) {
        // System.out.println(jp.getClass());
        // if ( jp.getArgs().length > 0)
        // System.out.println("First argument : " + jp.getArgs()[0]);
        System.out.println("Before Log Advice --> " + jp.getSignature());
    }

    // After Advice
    //@After(value = "execution (* aop.OrderService.*(..))"
    public void afterAdviceMethod(JoinPoint jp) {
        System.out.println("After Finally Advice --> " + jp.getSignature());
    }

    //@Around(value = "execution (* aop.OrderService.get*(..))"
    public Object aroundAdviceMethod(ProceedingJoinPoint pjp) {
        System.out.println("Before calling : " + pjp.getSignature());
        try {
            Object obj = pjp.proceed(pjp.getArgs()); // Call method in Target Object
            System.out.println("Success : " + obj);
            return obj;
        } catch (Throwable ex) {
            System.out.println("Exception : " + ex);
            return null;
        }
    }

    // After Throwing
    //@AfterThrowing(value = "execution (* aop.OrderService.*(..))", throwing = "ex")
    public void afterThrowingAdviceMethod(JoinPoint jp, Exception ex) {
        System.out.println("After Throwing Advice --> " + jp.getSignature());
        System.out.println("Exception is : " + ex.getMessage());
    }
}
```