**38. AOP Pointcut Declarations**

**Problem**:

* How can we reuse a pointcut expression?
* Want to apply multiple advices in AOP aspect.

**Possible Solution**:

Could just do old copy/paste method

@Before("execution(\* com.luv2code.aopdemo.dao.\*.\*(..))")

public void beforeAddAccountAdvice() {

...

}

@Before("execution(\* com.luv2code.aopdemo.dao.\*.\*(..))")

public void performApiAnalytics() {

...

}

But this is not a good programming practice.

**Ideal Solution**:

* Create a pointcut declaration once
* Apply it to multiple advices

**Developing Process (Step-by-Step)**:

1. Create a pointcut declaration
2. Apply pointcut declaration to advices

**Step 1- Create Pointcut Declaration**:

@Aspect

@Component

**public** **class** MyDemoLoggingAspect {

// create pointcut declaration

@Pointcut("execution(\* com.ruhul.aopdemo.dao.\*.\*(..))")

**private** **void** forDaoPackage() {

}

}

**Step 2 - Apply to Multiple Advices**:

@Aspect

@Component

**public** **class** MyDemoLoggingAspect {

// create pointcut declaration

@Pointcut("execution(\* com.ruhul.aopdemo.dao.\*.\*(..))")

**private** **void** forDaoPackage() {

}

// apply pointcut declaration to advice

@Before("forDaoPackage()")

**public** **void** beforeAddAccountAdvice() {

System.***out***.println("\n====>>> Executing @Before advice on method");

}

// reuse pointcut declaration

@Before("forDaoPackage()")

**public** **void** performApiAnalytics() {

System.***out***.println("\n====>>> Performing API analytics");

}

}

**Benefits of Pointcut Declarations**:

1. Easily reuse pointcut expressions
2. Update pointcut in one location
3. Can also share and combine pointcut expressions (coming up later)

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