

Our First advice

- In your project create a class `com.student.aspect.StudentAspect`
- Annotate it with `@Named` and `@Aspect` to indicate its Spring Managed and an Aspect
- Define a logger as follows (the port is `slf4j.*`);

```
private Logger LOG =  
LoggerFactory.getLogger(this.getClass().getSimpleName());
```

- Now define a Pointcut to intercept any Class, any method, with any arguments in the package `com.student.service`

```
@Pointcut("execution(* com.student.service.*.*(..))")  
public void log() {  
}
```

Lab 03.1

Trigger the advice

- Now define two methods in the aspect that are tied to this Pointcut as a @Before and @After Advice respectively
- What we see are advices triggered before and after target bean methods;

```
Student get(long id);  
Collection<Student> getAllStudents();  
Collection<Student> getStudentsByDepartment(String department);
```

- Relaunch your Spring Boot Application and test using your Angular Client. Just by opening the enrollment.html page we see output in the logs

StudentAspect	: Invoked Method Before->getAllStudents
StudentAspect	: Invoked Method Before->getAllStudents
StudentAspect	: Invoked Method After->getAllStudents
StudentAspect	: Invoked Method After->getAllStudents

- Why twice?
- Once for the department drop down menu and once for the list of students

Further advices

If you continue testing, you will see further output

StudentAspect	: Invoked Method Before->get
StudentAspect	: Invoked Method After->get
StudentAspect	: Invoked Method Before->getStudentsByDepartment
StudentAspect	: Invoked Method After->getStudentsByDepartment