Exercise

1. Invoke context events start(), stop() and close().

```
### Proposition | ### Proposit
```

2. Create listeners for spring events.

```
public class MyEventListener implements ApplicationListener<ApplicationContextEvent> {
    @Override
    public void onApplicationEvent(ApplicationContextEvent event) {
        System.out.println(event.getClass().getSimpleName());
    }
}
```

3. Create a CustomEvent which should get published when you invoke connect method of database bean.

4. Create a logging aspect. Create a pointcut to log all methods Of services .

```
<!--Enables the use of components marked as Aspect and other related annotations-->
<aop:aspectj-autoproxy/>
<!--Registering Logging Aspect as bean-->
<bean class="aspect.LoggingAspect"/>
```

5. Add a logging statement before and after the method ends

6. Log all the methods which throw IOException

7. Apply execution, within, args, this and bean expressions on the before and after advice of service bean.

Before Using Database Bean : Database\$\$EnhancerBySpringCGLIB\$\$d2d196ea After Using Database Bean : Database\$\$EnhancerBySpringCGLIB\$\$d2d196ea Instance : Database{name='mysql', port=3306}

8. Demonstrate the use of pointCut @Pointcut annotation and Reuse the expression created

9. Access the properties of the JoinPoint in before advice. Print Signature of method being called and its arguments

ContextRefreshedEvent
Before Using Database Bean : Database\$\$EnhancerBySpringCGLIB\$\$4d11a5c1 having signature : String entity.Database.toString() and Arguments : []
Instance : Database{name='mysql', port=3306}