



## Annotation (annotation + class)

```
public class ConcurrentOperationExecutor implements Ordered {
    private static final int DEFAULT_MAX_RETRIES - 2;
    private int maxRetries = DEFAULT_MAX_RETRIES;
    private int order = 1;
    public void setMaxRetries(int maxRetries) {
        this.maxRetries = maxRetries;
    }
    public int getOrder() {
        return this.order;
    }
    public void setOrder(int order) {
        this.order = order;
    }
    public void setOrder(int order) {
        this.order = order;
    }
    @Around("com.xyz.myapp.SystemArchitecture.businessService()")
    public Object doConcurrentOperation(ProceedingloInPoint pjp) throws Throwable {
        int numAttempts = 0;
        int numAttempts = 0;
        int numAttempts = 0;
        int numAttempts = 0;
        return pjp.proceed();
        return pjp.proceed();
        lockfailureException = ex;
    }
    / while(numAttempts < this.maxRetries);
    throw lockFailureException;
}</pre>
```

```
Package com.travel.service

class TravelService {
    arriveShangHai();
    arriveHongKong();
    arriveTaipei();
}

@Aspect
public class TravelAspect {
    // advice // pointcut
    @Before(Execution(* com.travel.service.arrive*(*)))
    public String welcome() {
        return "You are about to enter new city";
    }

    @After(Execution(* com.travel.service.arrive*(*)))
    public String fee() {
        return "New city will charge you $5";
    }
}
```

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## XML (config+class)

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```
public class MainController {
                                                                                                      @RequestMapping(value = "/{type:.+}", method = RequestMethod.GET)
public ModelAndView getPages(@PathVariable("type") String type)
                                                                                                           throws Exception (
                                                                                                        if ("error".equals(type)) {
                                                                                                          // go handleCustomException
throw new CustomGenericException("E888", "This is custom message");
                                                                                                        } else if ("io-error".equals(type)) {
  // go handleAllException
                                                                                                           throw new IOException();
                                                                                                           return new ModelAndView("index").addObject("msg", type);
              @ExceptionHandler
               (intercept a
                                                                                                      @ {\sf ExceptionHandler} ({\sf CustomGenericException.class})
                                                                                                      public ModelAndView handleCustomException(CustomGenericException ex) {
              particular exception
                                                                                                           ModelAndView model = new ModelAndView("error/generic_error");
                                                                                                          model.addObject("errCode", ex.getErrCode());
model.addObject("errMsg", ex.getErrMsg());
              inside one class)
                                                                                                      @ExceptionHandler(Exception.class)
public ModelAndView handleAllException(Exception ex) {
                                                                                                          ModelAndView model = new ModelAndView("error/generic_error");
model.addObject("errMsg", "this is Exception.class");
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```

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