# Spring Professional Exam Tutorial v5.0 Question 05

Question 05 - How many advice types does Spring support. Can you name each one? What are they used for? Which two advices can you use if you would like to try and catch exceptions?

## Question 05 - How many advice types does Spring support. Can you name each one? [...]

#### Spring supports following advice types:

- @After executed after joint point matched by pointcut is executed
- @AfterThrowing executed when exception is thrown from joint point matched by pointcut
- @AfterReturning executed after joint point matched by pointcut is executed successfully without any exception
- @Around allows you to take full control over joint point matched by pointcut, most powerful advice, allows you to implement all advices from above, you need to call ProceedingJoinPoint::proceed() to execute original code

### Question 05 - [...] What are they used for? [...]

Some examples of usage for each Advice type:

- @Before
  - Authorization, Security
  - Logging
  - Data Validation
- @After
  - Logging
  - Resource Cleanup
- @AfterThrowing
  - Logging
  - Error Handling
- @AfterReturning
  - Logging
  - Data Validation for method result
- @Around
  - Transactions
  - Distributed Call Tracing
  - Authorization, Security

## Question 05 - [...] Which two advices can you use if you would like to try and catch exceptions?

To catch exceptions you can use two advices:

- @AfterThrowing with throwing field set and exception passed as argument
- @Around with try ... catch block implemented