### <u>Way2Automation - Tutorial 7 — Hooks in Cucumber</u>

### What you will Learn:

- o About cucumber Hooks
- o Annotate tags with hooks
- o Practical demonstration
- o Multiple @Before with orders
- o Multiple @After with orders
- o Pass scenario object to the hooks' method
- o @BeforeStep
- o @AfterStep
- o Annotate tags with hooks demo
- o References

#### **About cucumber Hooks**

We will discuss various hooks available in cucumber. We can define setup methods (example: initializing driver, launch browser, read cookies etc) and teardown methods (example: close the browser, close the database connection etc) in the forms of hooks. Unlike 'Background' keyword that we studied in previous tutorial, 'Hooks' are not part of feature files.

Hooks can be written in:

- a) step definition file or
- b) a separate configuration class
- @Before hook defines setup methods and @After defines teardown methods.
- @Before will be executed <u>before each</u> scenario
- @After will be executed after every scenario

#### Similarly:

- @BeforeStep will be executed <u>before</u> <u>each</u> step of the scenario
- @AfterStep will be executed after every step of the scenario

We can also have multiple @Before annotations. We can define the orders. Let us say we have 2 @Before annotations. The annotation that has 'order = 1' will be executed first before every scenario and the annotation that has 'order = 2' will be executed next before every scenario:

@Before

launching the browser method (order = 1)

@Before

initializing database method (order = 2)

Similarly we can have:

@After

closing the browser method (order = 1)

@After

disconnecting the database method (order = 2)

**Annotate tags with hooks** 

Let us say we have 2 'search' scenarios tagged with @Smoke

@Smoke

Scenario: Search

@Smoke

Scenario: Advance Search

Let us also have another scenario tagged with @Regression

@Regression

Scenario: Mouse hover

Now, we can create @Before annotation and you can tag them with hooks. So we can say:

@Before("@Smoke")

So it will execute only those scenarios which are tagged with @Smoke

### **Practical demonstration**

Create a package 'Hooks' under src/test/java. Inside the package, create a class 'HooksDemo'

```
Package Explo... 

Background.feature

Background.java

Background.fest.java

Background.festure

Backgrou
```

Write 2 methods inside the class, see below. Make sure that you import the classes from cucumber library

```
1 package Hooks;
 3 import io.cucumber.java.After;
   import io.cucumber.java.Before;
   public class HooksDemo {
 6
 7
 80
       @Before
       public void setup() {
 9
           System.out.println("initiate database connection");
10
11
        }
12
13⊝
       @After
14
       public void tearDown() {
           System.out.println("close all the browsers");
15
16
17
                                                                Acti
18 }
```

Let us look at the 'Search' feature that we had written in one of our previous tutorials. This feature has only 1 scenario

```
Packa... 🎖 Ju Junit 😑 🗋 🚺 HooksDemo.java 🚱 Search.feature 🛱 🗓 SearchSteps.java
                                                               RunnerTest.java
          1 Feature: Way2Automation search
乃 src/main/java
                        3 Scenario: Search course
  <u>a</u> 4
                             Given Search field should be present on the Way2Automation website

✓ Æ Features

                              When I search for a course "cucumber BDD for Selenium" having price 1000
                     a 5
      Background.feature
       Search.feature
                              Then Course "Cucumber BDD for Selenium & Appium with Live Projects" should be displayed
       Tag.feature
```

Now, before this particular scenario, @Before hook will be executed. After the scenario completion, @After hook will be executed.

What we have to do is that, go to our 'Runner' file (see below) and mention the 'Hooks' package name in the 'glue' options

```
₽ Packa... 🏻 Ju JUnit 🗀 🗖
                        Search.feature
                                                      SearchSteps.java
                                                                      RunnerTest.java ?
           1 package TestRunner;
CucumberMavenProject
   src/main/java
                          3⊕ import org.junit.runner.RunWith;

✓ 

## src/test/java

                          7
   8 @RunWith(Cucumber.class)
       🥵 Background.feature
                          9 @CucumberOptions(
       Search.feature
       Tag.feature
                         10
                                      features = {"src/test/java/Features"},

✓ 

Hooks

                                     glue = {"StepDefinitions", "Hooks"
                         11
     > II HooksDemo.java
                         12
                                      plugin = {"pretty"},
   13
                                      monochrome = true
     > D Background.java
     > 🚺 SearchSteps.java
                         14
     > I TagSD.java
                         15 public class RunnerTest {
   16
     > 

BackgroundTest.java
                         17 }
     > I RunnerTest.java
```

Also, mention the name of the feature file

```
📮 Packa... 🛭 🗗 JUnit 🗀 🗖
                                                                                                              HooksDemo.java
                                                                                                                                                                                         Search.feature

☑ SearchSteps.java
☑ RunnerTest.java 

☒
                                                                                                                            1 package TestRunner;

CucumberMavenProject

Visit 1

Line 1

Lin
                   src/main/java
                                                                                                                            3⊕ import org.junit.runner.RunWith;
             8 @RunWith(Cucumber.class)
                                     Background.feature
                                     Rearch.feature
                                                                                                                          9 @CucumberOptions(
                                     Tag.feature
                                                                                                                                                                                features = {"src/test/java/Features | Search.feature"},
                                                                                                                       10

✓ 

Hooks

                                                                                                                       11
                                                                                                                                                                                 glue = {"StepDefinitions", "Hooks"},
                             > I HooksDemo.java
                                                                                                                      12
                                                                                                                                                                                plugin = {"pretty"},

→ ⊕ StepDefinitions

                                                                                                                       13
                                                                                                                                                                                monochrome = true
                             > 

Background.java
                             > 🗾 SearchSteps.java
                                                                                                                       14
                             > 🚺 TagSD.java
                                                                                                                      15 public class RunnerTest {
```

Save the file

Let us run the RunnerTest.java

```
Quick Type Hierarchy
                                                                                        Ctrl+T
 8 @RunWith(Cucumber.class)
                                                           Open With
9 @CucumberOptions(
                                                           Show In
                                                                                    Alt+Shift+W >
              features = {"src/test/java/Feat
LØ
              glue = {"StepDefinitions", "Ho  cut
11
                                                                                        Ctrl+X
12
              plugin = {"pretty"},
                                                                                        Ctrl+C
                                                           Copy
L3
              monochrome = true
                                                        Copy Qualified Name
L4
                                                        Paste
                                                                                        Ctrl+V
15 public class RunnerTest {
                                                           Quick Fix
                                                                                        Ctrl+1
L6
                                                           Source
                                                                                     Alt+Shift+S >
17 }
                                                           Refactor
                                                                                     Alt+Shift+T>
18
                                                           Local History
                                                                                             >
                                                           References
                                                           Declarations
                                                          Add to Snippets...
                                                          Coverage As
                                                           Run As
                                                                                             > Ju 1 JUnit Test
```

Notice the console o/p. The @Before hook is executed before all the scenario steps and @After hook is executed after all the scenario steps are over

```
Console 
Console
```

Let us now add one more scenario to our feature file

```
☑ HooksDemo.java
⑤ Search.feature
※ ☑ SearchSteps.java
                                         RunnerTest.java
  1⊕ Feature: Wav2Automation search
  2
  3⊝
      Scenario: Search course
        Given Search field should be present on the Way2Automation website
4
6
        When I search for a course "cucumber BDD for Selenium" having price 1000
6
        Then Course "Cucumber BDD for Selenium & Appium with Live Projects" should be displayed
  7
  80
       Scenario: Search automation course
Given Search field should be present on the selenium website
410
        When I search for a course "Appium" having price 1500
         Then Course "Appium" should be displayed
411
12
```

Save the file

Let us re-run the RunnerTest.java

```
Quick Type Hierarchy
                                                                                         Ctrl+T
8 @RunWith(Cucumber.class)
                                                            Open With
9 @CucumberOptions(
                                                            Show In
                                                                                    Alt+Shift+W >
10
              features = {"src/test/java/Feat
              glue = {"StepDefinitions", "Ho( ﴿
11
                                                           Cut
                                                                                         Ctrl+X
              plugin = {"pretty"},
L2
                                                                                        Ctrl+C
                                                           Copy
              monochrome = true
L3
                                                        Copy Qualified Name
L4
                                                        Paste
                                                                                         Ctrl+V
15 public class RunnerTest {
                                                            Quick Fix
                                                                                         Ctrl+1
16
                                                                                     Alt+Shift+S >
                                                            Source
L7 }
                                                            Refactor
                                                                                     Alt+Shift+T>
18
                                                            Local History
                                                            References
                                                            Declarations
                                                           Add to Snippets...
                                                           Coverage As
                                                                                              > Ju 1 JUnit Test
                                                            Run As
```

Notice the console o/p. The @Before hook is executed before the starting of both the scenarios. Similarly, @After hook is executed after the completion of both the scenarios

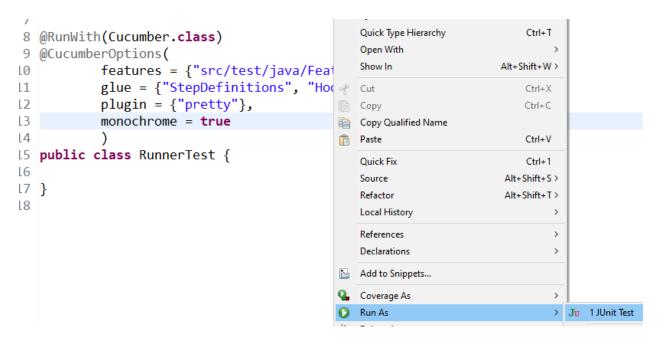
```
■ Console ※
<terminated> RunnerTest [JUnit] C:\Program Files\Java\jdk1.8.0_191\bin\javaw.exe (28-Feb-2021, 2:37:45 PM)
Scenario: Search course
initiate database connection
Step 1: I landed on search page
  Given Search field should be present on the Way2Automation website
Step 2: Search the course with name: cucumber BDD for Selenium price: 1000
  When I search for a course "cucumber BDD for Selenium" having price 1000
Step 3: course Cucumber BDD for Selenium & Appium with Live Projects is displayed
  Then Course "Cucumber BDD for Selenium & Appium with Live Projects" should be displayed
close all the browsers
Scenario: Search automation course
                                                                   # src/test/java/Features/Sc
initiate database connection
  Given Search field should be present on the selenium website # null
  When I search for a course "Appium" having price 1500
                                                                   # StepDefinitions.SearchSte
  Then Course "Appium" should be displayed
                                                                   # StepDefinitions.SearchSte
close all the browsers
                                                                                            Δcti
```

#### **Multiple @Before with orders**

Let us have one more @Before hook with a different method, see below. Let us add the order number 1 and 2

```
SearchSteps.java
                                        RunnerTest.java
 1 package Hooks;
 2
 3⊕ import io.cucumber.java.After; [
 5
 6 public class HooksDemo {
       @Before(order = 1)
 80
 9
        public void setup_db() {
           System.out.println("initiate database connection");
10
11
12
       @Before(order = 2)
13⊜
       public void setup_browser() {
14
15
           System.out.println("launch browser");
16
17
       @After
18⊝
       public void tearDown() {
19
20
           System.out.println("close all the browsers");
21
22
23 }
```

Save the file Let us re-run the RunnerTest.java



Notice the console o/p. The 2 @Before hook methods are executed as per the order given

```
■ Console 器
<terminated> RunnerTest [JUnit] C:\Program Files\Java\jdk1.8.0_191\bin\javaw.exe (28-Feb-2021, 2:53:32 PM)
Scenario: Search course
initiate database connection
launch browser
Step 1: I landed on search page
  Given Search field should be present on the Way2Automation website
Step 2: Search the course with name: cucumber BDD for Selenium price: 1000
  When I search for a course "cucumber BDD for Selenium" having price 1000
Step 3: course Cucumber BDD for Selenium & Appium with Live Projects is displayed
  Then Course "Cucumber BDD for Selenium & Appium with Live Projects" should be displayed
close all the browsers
Scenario: Search automation course
                                                                   # src/test/java/Features/Se
initiate database connection
launch browser
  Given Search field should be present on the selenium website # null
  When I search for a course "Appium" having price 1500
                                                                   # StepDefinitions.SearchSte
  Then Course "Appium" should be displayed
                                                                   # StepDefinitions.SearchSte
close all the browsers
```

#### Multiple @After with orders

Let us now have 3 @After methods with different orders. In the case of @After hook, the orders work in revers order. So order=3 will be executed first, than order=2, finally order=1

```
☑ SearchSteps.java
                                        ☑ RunnerTest.java
 3⊕ import io.cucumber.java.After;
 6 public class HooksDemo {
 80
        @Before(order = 1)
 9
        public void setup db() {
10
            System.out.println("initiate database connection");
11
12
        @Before(order = 2)
13⊜
14
        public void setup browser() {
15
            System.out.println("launch browser");
16
17
18⊜
        @After(order = 2)
        public void tearDown browser() {
19
20
            System.out.println("close all the browsers");
21
22⊝
        @After(order = 1)
23
        public void tearDown database() {
24
            System.out.println("disconnect from db");
25
26⊜
        @After(order = 3)
        public void tearDown() {
27
            System.out.println("exiting from system");
28
29
```

# Save the file Let us re-run the RunnerTest.java

```
Ctrl+T
                                                            Quick Type Hierarchy
8 @RunWith(Cucumber.class)
                                                            Open With
9 @CucumberOptions(
                                                            Show In
                                                                                      Alt+Shift+W >
              features = {"src/test/java/Feat
10
11
              glue = {"StepDefinitions", "Ho €
                                                                                          Ctrl+X
L2
              plugin = {"pretty"},
                                                            Copy
                                                                                          Ctrl+C
              monochrome = true
13
                                                         Copy Qualified Name
L4
                                                                                          Ctrl+V
                                                            Paste
   public class RunnerTest {
                                                            Quick Fix
                                                                                          Ctrl+1
16
                                                                                      Alt+Shift+S >
                                                            Source
L7 }
                                                            Refactor
                                                                                      Alt+Shift+T>
18
                                                            Local History
                                                            References
                                                            Declarations
                                                            Add to Snippets...
                                                            Coverage As
                                                                                               > Ju 1 JUnit Test
                                                            Run As
```

Notice the console o/p. The 3 @After hook methods are executed. Order=3 is executed first and then order=2 and finally order=1

```
<terminated> RunnerTest [JUnit] C:\Program Files\Java\jdk1.8.0_191\bin\javaw.exe (28-Feb-2021, 3:06:25 PM)
Scenario: Search course
initiate database connection
launch browser
Step 1: I landed on search page
  Given Search field should be present on the Way2Automation website
Step 2: Search the course with name: cucumber BDD for Selenium price: 1000
  When I search for a course "cucumber BDD for Selenium" having price 1000
Step 3: course Cucumber BDD for Selenium & Appium with Live Projects is disp
  Then Course "Cucumber BDD for Selenium & Appium with Live Projects" should
exiting from system
close all the browsers
disconnect from db
Scenario: Search automation course
                                                                   # src/test/ja
initiate database connection
launch browser
  Given Search field should be present on the selenium website # null
  When I search for a course "Appium" having price 1500
                                                                   # StepDefinit
  Then Course "Appium" should be displayed
                                                                   # StepDefinit
exiting from system
close all the browsers
disconnect from db
```

# Pass scenario object to the hooks' method

We can pass scenario object to a method, see below

```
HooksDemo.java Search.feature

3 import io.cucumber.java.After;

public class HooksDemo {

abla Before(order = 1)

public void setup_db(Scenario sc) {

System.out.println("initiate database connection");
}
```

Import 'Scenario' from io.cucumber.java

At runtime, we can now use this object to return us the scenario id, scenario name etc

```
Packa... 

□ II *HooksDemo.java 

□ Search.feature
                                                             RunnerTest.java
          1 package Hooks;
CucumberMavenProject
  src/main/java
                            3 • import io.cucumber.java.After; □

✓ 

## src/test/java

  > 🔼 Features
                            7 public class HooksDemo {
  > 🖶 Hooks
  > 

StepDefinitions
  > 🌐 TestRunner
                            9⊜
                                    @Before(order = 1)
> 🔼 JRE System Library [JavaSE-1
                                    public void setup db(Scenario sc) {
> Maven Dependencies
                                          System.out.println("initiate database connection");
                           11
> 🐎 src
                                          System.out.println(sc.get);
> 🗁 target
  M Returns:
                                                                         getld(): String - Scenario
          the name of the Scenario
                                                                         getName(): String - Scenario
                                                                         getClass(): Class<?> - Object
                                                                         • getLine() : Integer - Scenario
                                                                         getSourceTagNames(): Collection<String> - Scenario
                                                                         getStatus(): Status - Scenario
                                                                         qetUri(): URI - Scenario
```

So let us get the scenario name

```
☑ HooksDemo.java 
☒ Search.feature

                            RunnerTest.java
 1 package Hooks;
  3⊕ import io.cucumber.java.After;
  6
    public class HooksDemo {
        @Before(order = 1)
 9⊜
        public void setup db(Scenario sc) {
10
            System.out.println("initiate database connection");
11
12
            System.out.println(sc.getName());
13
        ŀ
```

Similarly let us do the same thing in for @After method

```
@After(order = 2)
public void tearDown_browser(Scenario sc) {
    System.out.println("close all the browsers");
    System.out.println(sc.getName());
}
```

Save the file Let us re-run the RunnerTest.java

```
Quick Type Hierarchy
                                                                                        Ctrl+T
8 @RunWith(Cucumber.class)
                                                           Open With
9 @CucumberOptions(
                                                           Show In
                                                                                    Alt+Shift+W >
              features = {"src/test/java/Feat
10
              glue = {"StepDefinitions", "Ho €
11
                                                                                        Ctrl+X
L2
              plugin = {"pretty"},
                                                           Сору
                                                                                        Ctrl+C
              monochrome = true
L3
                                                        Copy Qualified Name
14
                                                                                        Ctrl+V
                                                        Paste
15 public class RunnerTest {
                                                           Quick Fix
                                                                                        Ctrl+1
                                                                                     Alt+Shift+S>
                                                           Source
L7 }
                                                           Refactor
                                                                                     Alt+Shift+T>
18
                                                           Local History
                                                           References
                                                           Declarations
                                                        Add to Snippets...
                                                           Coverage As
                                                           Run As
                                                                                             > Ju 1 JUnit Test
```

Notice the console o/p. The respective scenario names are getting printed for the 2 scenarios

```
□ Console ⊠
<terminated> RunnerTest [JUnit] C:\Program Files\Java\jdk1.8.0_191\bin\javaw.exe (28-Feb-2021, 3:27:31 PM)
Scenario: Search course
initiate database connection
Search course
launch browser
Step 1: I landed on search page
  Given Search field should be present on the Way2Automation website
Step 2: Search the course with name: cucumber BDD for Selenium price: 1000
  When I search for a course "cucumber BDD for Selenium" having price 1000
Step 3: course Cucumber BDD for Selenium & Appium with Live Projects is displayed
  Then Course "Cucumber BDD for Selenium & Appium with Live Projects" should be displayed
exiting from system
close all the browsers
Search course
disconnect from db
Scenario: Search automation course
                                                                   # src/test/java/Features/S
initiate database connection
Search automation course
launch browser
  Given Search field should be present on the selenium website # null
  When I search for a course "Appium" having price 1500
                                                                   # StepDefinitions.SearchSt
  Then Course "Appium" should be displayed
                                                                   # StepDefinitions.SearchSt
exiting from system
close all the browsers
                                                                                          Activ
Search automation course
disconnect from db
```

## @BeforeStep

Let us write @BeforeStep

```
☑ SearchSteps.java

                                        RunnerTest.jav
 8 public class HooksDemo {
 9
10⊝
       @Before(order = 1)
        public void setup_db(Scenario sc) {
11
12
            System.out.println("initiate database
13
            System.out.println(sc.getName());
14
15
       @Before(order = 2)
16⊜
17
       public void setup_browser() {
            System.out.println("launch browser");
18
19
20
21⊜
        @BeforeStep
22
        public void take screenshot() {
           System.out.println("took screenshot")
23
24
```

Save the file and run RunnerTest.java

Notice below that @BeforeStep is executed before each step

```
console 
cterminated> RunnerTest [JUnit] C:\Program Files\Java\jdk1.8.0_191\bin\javaw.exe (28-Scenario: Search course
initiate database connection
Search course
launch browser
took screenshot
Step 1: I landed on search page
   Given Search field should be present on the
took screenshot
Step 2: Search the course with name: cucumber
   When I search for a course "cucumber BDD for
took screenshot
Step 3: course Cucumber BDD for Selenium & App
Then Course "Cucumber BDD for Selenium & App
```

## @AfterStep

Let us now write @AfterStep

```
    HooksDemo.java 
    Search.feature

                            RunnerTest.java
22⊝
        @BeforeStep
        public void take screenshot() {
23
            System.out.println("took screenshot");
24
25
        }
26
27⊝
        @AfterStep
        public void wait for sometime() {
28
            System.out.println("waiting for few minutes");
29
30
```

Save the file and run RunnerTest.java

Notice below that @AfterStep is executed after each step

```
■ Console ※
<terminated> RunnerTest [JUnit] C:\Program Files\Java\jdk1.8.0_191\bin\javaw.exe
Scenario: Search course
initiate database connection
Search course
launch browser
took screenshot
Step 1: I landed on search page
  Given Search field should be present on th
waiting for few minutes
took screenshot
Step 2: Search the course with name: cucumbe
  When I search for a course "cucumber BDD f
waiting for few minutes
took screenshot
Step 3: course Cucumber BDD for Selenium & /
  Then Course "Cucumber BDD for Selenium & /
waiting for few minutes
exiting from system
```

# Annotate tags with hooks demo

In our feature file, let us tag the 2 scenarios by tagnames @Smoke and @Production

```
RunnerTest.java
   1 Feature: Way2Automation search
   2
   3
       @Smoke
      Scenario: Search course
         Given Search field should be present on the Way2Automation website
         When I search for a course "cucumber BDD for Selenium" having price 1000
a 7
         Then Course "Cucumber BDD for Selenium & Appium with Live Projects" should be displayed
 8
  9 @Production
  10⊖ Scenario: Search automation course
 11
         Given Search field should be present on the selenium website
         When I search for a course "Appium" having price 1500
 12
 13
        Then Course "Appium" should be displayed
```

#### Save the file

In our hook file, comment all the methods and just retain @Before and @After hooks, see below. Now pass the tagname @Smoke to boh of these hooks

```
☑ SearchSteps.java

                                         RunnerTest.java
  1 package Hooks;
  2

⅓ 3®import io.cucumber.java.After;

☐
  9 public class HooksDemo {
 10
 11⊝
        @Before("@Smoke")
        public void setup db() {
 12
            System.out.println("initiate database connection");
 13
            //System.out.println(sc.getName());
 14
 15
        }
 16
        @After("@Smoke")
 17⊝
        public void tearDown database() {
 18
            System.out.println("disconnect from db");
 19
 20
        }
 21
```

Save the file

Run the RunnerTest.java.

Notice below that @Before and @After hooks are executed only for the scenario tagged with @Smoke

```
■ Console ⋈
<terminated> RunnerTest [JUnit] C:\Program Files\Java\jdk1.8.0_191\bin\javaw.exe (28-Feb-2021, 3:57:31 PM)
@Smoke
Scenario: Search course
initiate database connection
Step 1: I landed on search page
  Given Search field should be present on the Way2Automation website
Step 2: Search the course with name: cucumber BDD for Selenium price: 1000
  When I search for a course "cucumber BDD for Selenium" having price 1000
Step 3: course Cucumber BDD for Selenium & Appium with Live Projects is displayed
  Then Course "Cucumber BDD for Selenium & Appium with Live Projects" should be di
disconnect from db
@Production
Scenario: Search automation course
                                                                    # src/test/java/Fea
  Given Search field should be present on the selenium website # null
  When I search for a course "Appium" having price 1500
                                                                    # StepDefinitions.S
  Then Course "Appium" should be displayed
                                                                    # StepDefinitions.S
```

Let us now change the tagname to @Production

```
🔃 HooksDemo.java 💢 🐯 Search.feature
                             SearchSteps.java
                                            J RunnerTest.java
  1 package Hooks;

⅓ 3®import io.cucumber.java.After;

☐
  9 public class HooksDemo {
 10
         @Before("@Production")
 11⊝
         public void setup db() {
 12
             System.out.println("initiate database connection");
 13
 14
             //System.out.println(sc.getName());
 15
         }
 16
        @After("@Production")
 17⊜
         public void tearDown database() {
 18
             System.out.println("disconnect from db");
 19
                                                                   Ac
 20
         }
```

Save the file

Run the RunnerTest.java.

Notice below that @Before and @After hooks are executed only for the scenario tagged with @Production

```
■ Console ※
<terminated> RunnerTest [JUnit] C:\Program Files\Java\jdk1.8.0_191\bin\javaw.exe (28-Feb-2021, 4:05:20 PM)
@Smoke
Scenario: Search course
Step 1: I landed on search page
 Given Search field should be present on the Way2Automation website
Step 2: Search the course with name: cucumber BDD for Selenium price: 1000
  When I search for a course "cucumber BDD for Selenium" having price 1000
Step 3: course Cucumber BDD for Selenium & Appium with Live Projects is displayed
  Then Course "Cucumber BDD for Selenium & Appium with Live Projects" should be displayed
@Production
Scenario: Search automation course
                                                                   # src/test/java/Features/Se
initiate database connection
  Given Search field should be present on the selenium website # null
  When I search for a course "Appium" having price 1500
                                                                   # StepDefinitions.SearchSte
  Then Course "Appium" should be displayed
                                                                   # StepDefinitions.SearchSte
disconnect from db
```

You will get the same results even if you define the 'tags' option in RunnerTest.java, see below

```
HooksDemo.java
               Search.feature
                             SearchSteps.java
                                            🚺 RunnerTest.java 🔀
  1 package TestRunner;
  3. import org.junit.runner.RunWith;
  8 @RunWith(Cucumber.class)
 9 @CucumberOptions(
             features = {"src/test/java/Features/Search.feature"},
10
             glue = {"StepDefinitions", "Hooks"},
 11
12
             plugin = {"pretty"},
13
            tags = "@Smoke or @Production",
             monochrome = true
14
15
             )
16
17 public class RunnerTest {
```

#### References

You can refer www.baeldung.com/java-cucumber-hooks for related documentation

### 1. Introduction

Cucumber hooks can come in handy when we want to perform specific actions for every scenario or step, but without having these actions explicitly in the Gherkin code.

In this tutorial, we'll look at the @Before, @BeforeStep, @AfterStep, and @After Cucumber hooks.

# 2. Overview of Hooks in Cucumber

#### 2.1. When Should Hooks Be Used?

Hooks can be used to perform background tasks that are not part of business functionality. Such tasks could be:

- Starting up a browser
- Setting or clearing cookies
- Connecting to a database

Thank you for reading!