Lab 4.5 Cucumber with Java

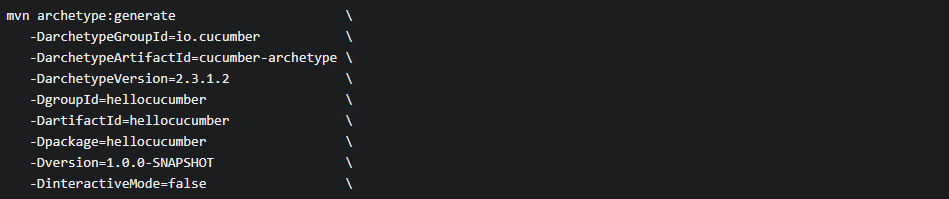
This section will guide you to:

* Use cucumber and write the scenario with Gherkin language.
* Write the first step definition in Java.
* Confirm the output of cucumber with the positive result.

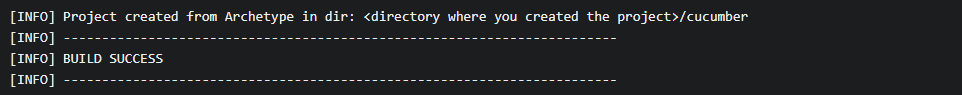
This lab has 3 subsections:

* + 1. See scenario reported as undefined.
    2. See scenario reported as failing.
    3. See scenario reported as passing.

Create a project directory with cucumber-archetype Maven plugin. Open the terminal, and navigate to the project directory, and execute the following command:



If you haven’t encountered any errors, you will get the following result:

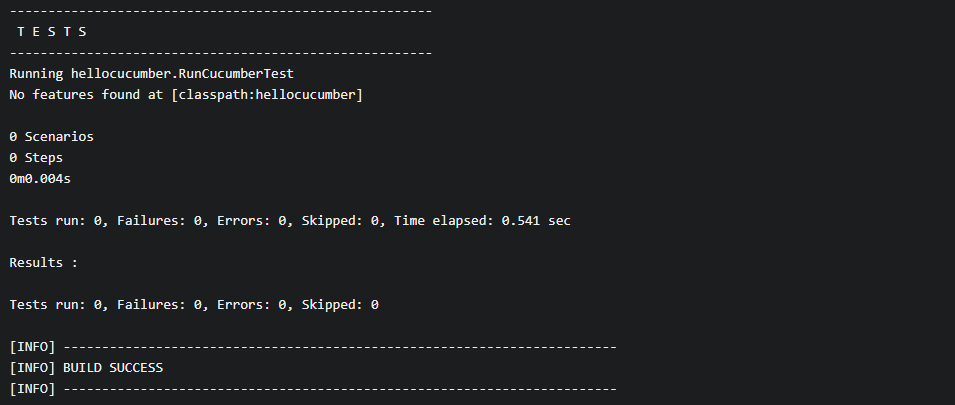


Create a directory **“hellocucumber”** inside the project directory, and navigate inside the **“hellocucumber”** folder.

Choose any IDE and select the “**Open as Project**” option the choose the **pox.xml** file**.**

Verify cucumber installation by executing “**mvn test”.**

If you haven’t encountered any errors, then you should see the following output:



Create an empty file called **is\_it\_Friday\_yet.feature** in the directory path **src/test/resources/hellocucumber/is\_it\_Friday\_yet.feature** with the following code:

Feature: Is it Friday yet?

Everybody wants to know when it's Friday

Scenario: Sunday isn't Friday

Given today is Sunday

When I ask whether it's Friday yet

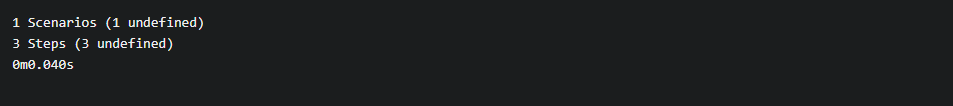
Then I should be told "Nope"

**Step 4.4.1 :** See scenario reported as undefined.

Execute the following command from the terminal:



You should confirm the following output.



**Step 4.4.2 :** See scenario reported as failing.

Create a **stepdefs.java** at the location **src/test/java/hellocucumber/stepdefs.java** if it is not already created.

Add the below mentioned step definition code:

package hellocucumber;

import cucumber.api.java.en.Given;

import cucumber.api.java.en.When;

import cucumber.api.java.en.Then;

import static org.junit.Assert.\*;

class IsItFriday {

static String isItFriday(String today) {

return null;

}

}

public class Stepdefs {

private String today;

private String actualAnswer;

@Given("^today is Sunday$")

public void today\_is\_Sunday() {

this.today = "Sunday";

}

@When("^I ask whether it's Friday yet$")

public void i\_ask\_whether\_is\_s\_Friday\_yet() {

this.actualAnswer = IsItFriday.isItFriday(today);

}

@Then("^I should be told \"([^\"]\*)\"$")

public void i\_should\_be\_told(String expectedAnswer) {

assertEquals(expectedAnswer, actualAnswer);

}

}

Run the cucumber, and you would be able to confirm that two steps will pass, and the last step will fail.

3

**Step 4.4.3 :** See scenario as passing.

Add **return ‘Nope’;** to the code available in the step definitionfile.

static String isItFriday(String today) {

return "Nope";

}

Run the cucumber and confirm the following output:

