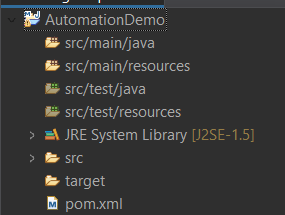
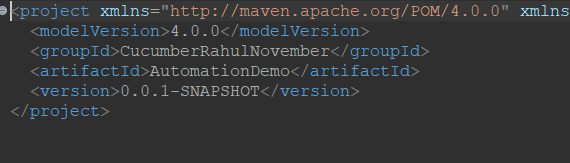
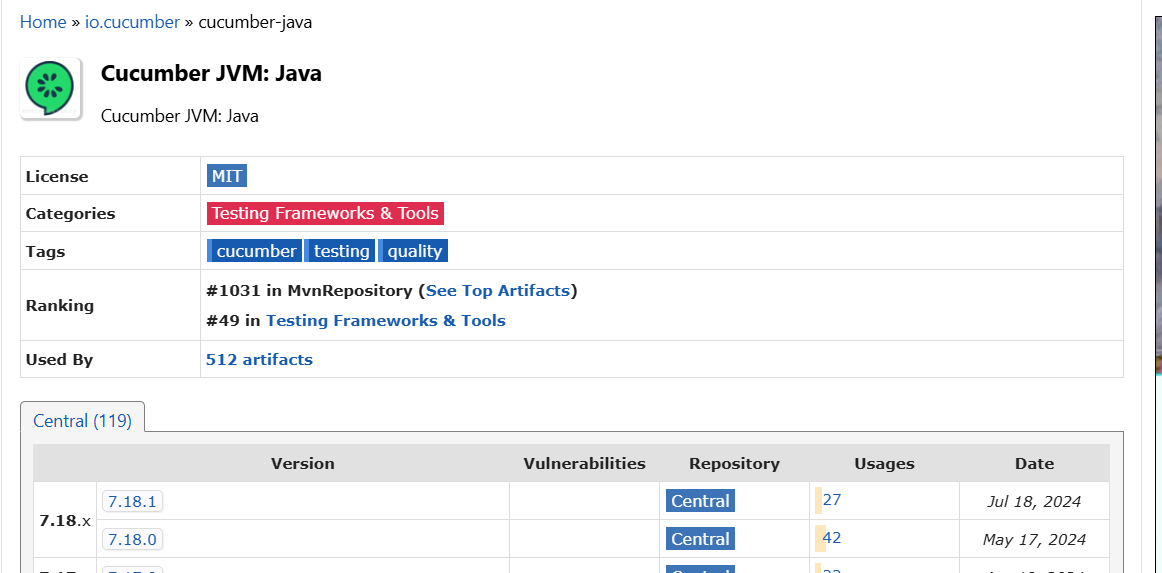
**Cucumber ->**

**File Structure:-**





Download Cucumber JVM Java and Cucumber TestNG for Maven and paste it in POM.xml:-



<!-- https://mvnrepository.com/artifact/io.cucumber/cucumber-java -->

<dependency>

<groupId>io.cucumber</groupId>

<artifactId>cucumber-java</artifactId>

<version>7.18.1</version>

</dependency>

**Sample POM.xml:-**

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>CucumberRahulNovember</groupId>

<artifactId>AutomationDemo</artifactId>

<version>0.0.1-SNAPSHOT</version>

<dependencies>

<!-- https://mvnrepository.com/artifact/io.cucumber/cucumber-java -->

<dependency>

<groupId>io.cucumber</groupId>

<artifactId>cucumber-java</artifactId>

<version>7.18.1</version>

</dependency>

<!-- https://mvnrepository.com/artifact/io.cucumber/cucumber-testng -->

<dependency>

<groupId>io.cucumber</groupId>

<artifactId>cucumber-testng</artifactId>

<version>7.18.1</version>

</dependency>

</dependencies>

</project>

Junit and TestNG helps in running Java Test in Cucumber.

//TestNG is used much mostly.

**Syntax/Files Needed:-**

Feature File : –

Feature:

Scenario:

Given

When

Then

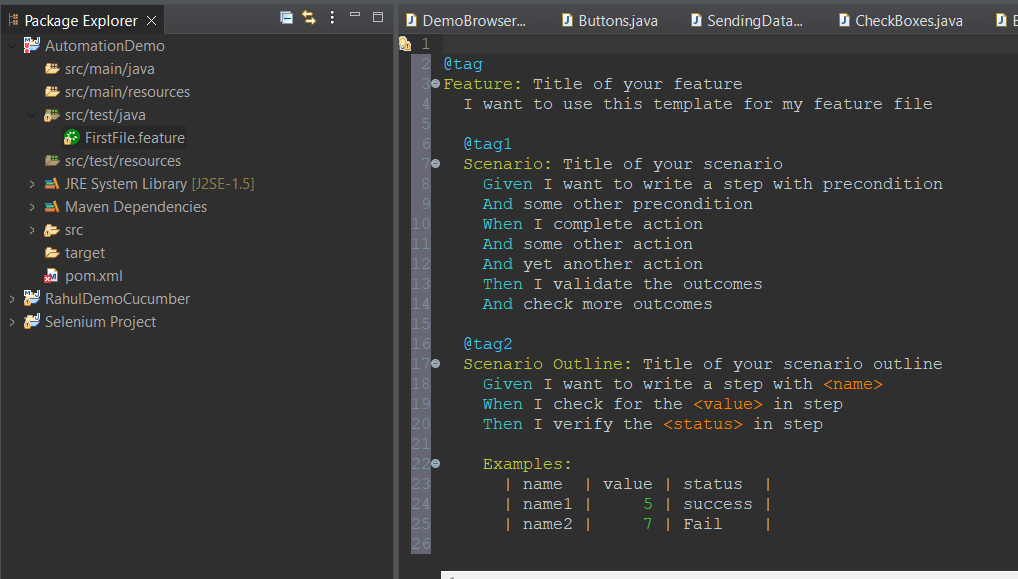
Step Definition File:-

Test Runner:-

Junit/TestNG

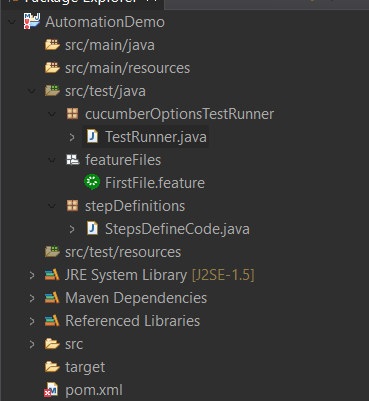
**File in src/test/java:-**

**File extension is .feature**

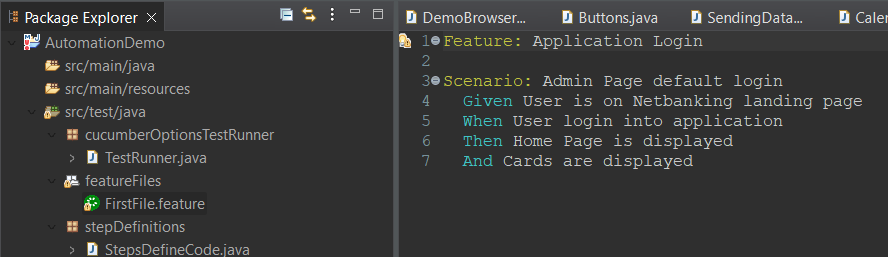


**Entire File Structure:-**

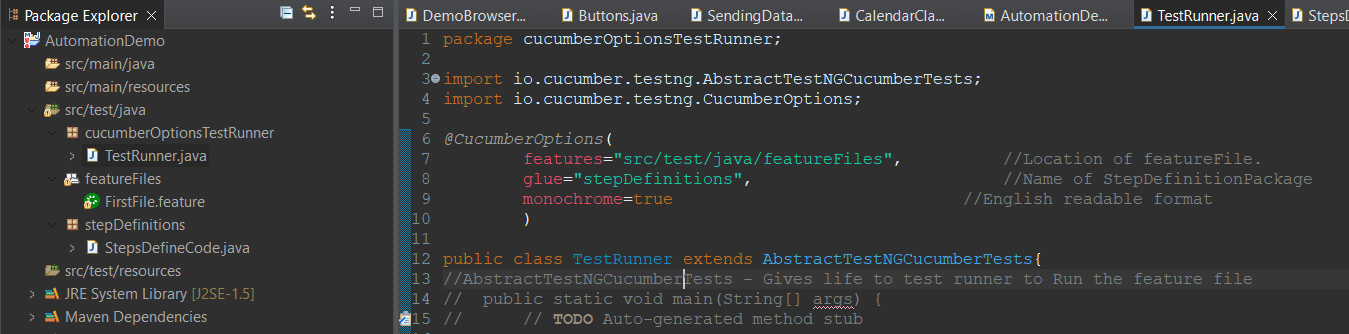
**Created Package and separation for all 3 essential files.**



**Feature File:-**



**TestRunnerFile:-**



We have empty step Definition file as of now.

Undefined Step error when no StepDefinition present.

Runs Cucumber Scenarios

io.cucumber.testng.UndefinedStepException: The step 'User is on Netbanking login page' and 3 other step(s) are undefined.

You can implement these steps using the snippet(s) below:

@Given("User is on Netbanking login page")

public void user\_is\_on\_netbanking\_login\_page() {

// Write code here that turns the phrase above into concrete actions

throw new io.cucumber.java.PendingException();

}

@When("User login into application")

public void user\_login\_into\_application() {

// Write code here that turns the phrase above into concrete actions

throw new io.cucumber.java.PendingException();

}

@Then("Home Page is displayed")

public void home\_page\_is\_displayed() {

// Write code here that turns the phrase above into concrete actions

throw new io.cucumber.java.PendingException();

}

@Then("Cards are displayed")

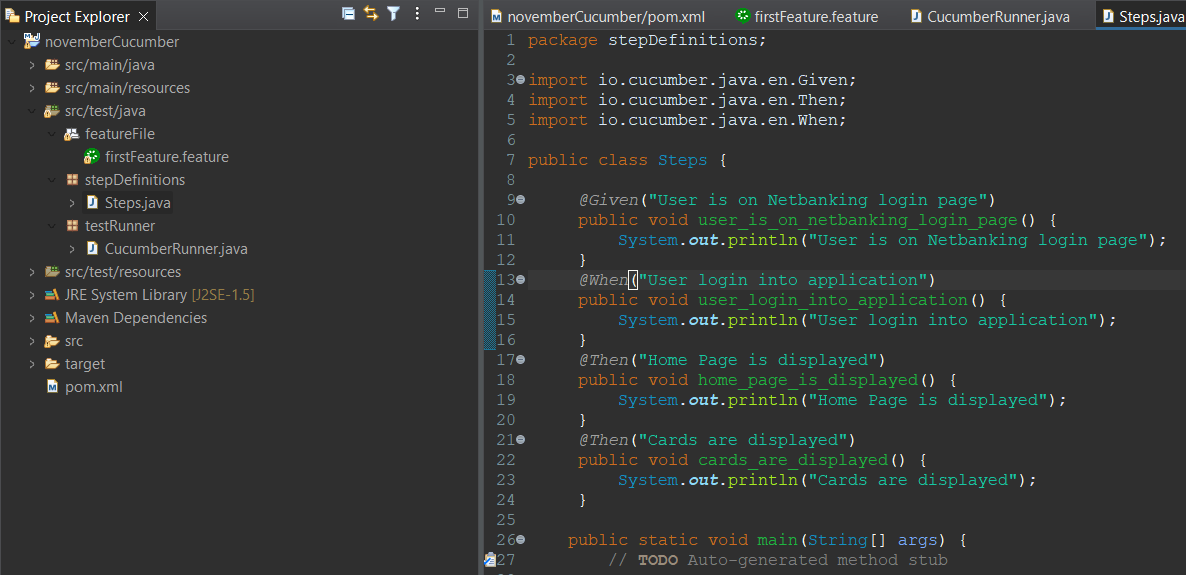
public void cards\_are\_displayed() {

// Write code here that turns the phrase above into concrete actions

throw new io.cucumber.java.PendingException();

}

**StepDefinitionFile and it’s Output:-**



[RemoteTestNG] detected TestNG version 7.10.2

User is on Netbanking login page

User login into application

Home Page is displayed

Cards are displayed

PASSED: io.cucumber.testng.AbstractTestNGCucumberTests.runScenario("Admin Page default login", "Application Login")

Runs Cucumber Scenarios

===============================================

Default test

Tests run: 1, Failures: 0, Skips: 0

===============================================

===============================================

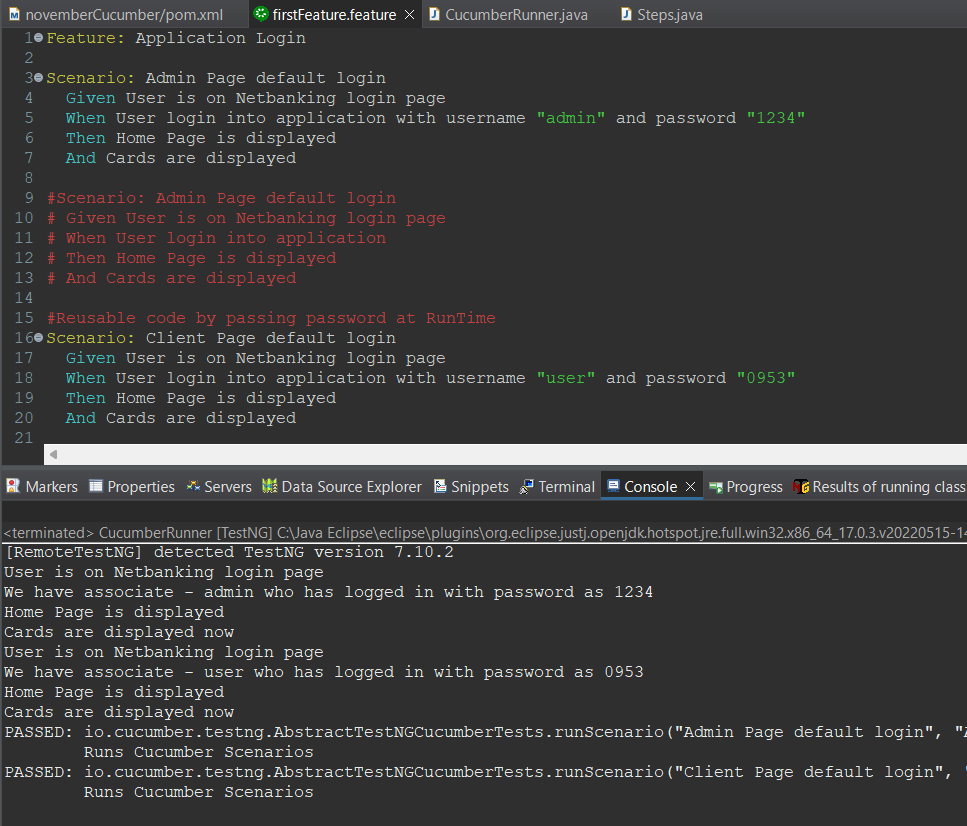
Default suite

Total tests run: 1, Passes: 1, Failures: 0, Skips: 0

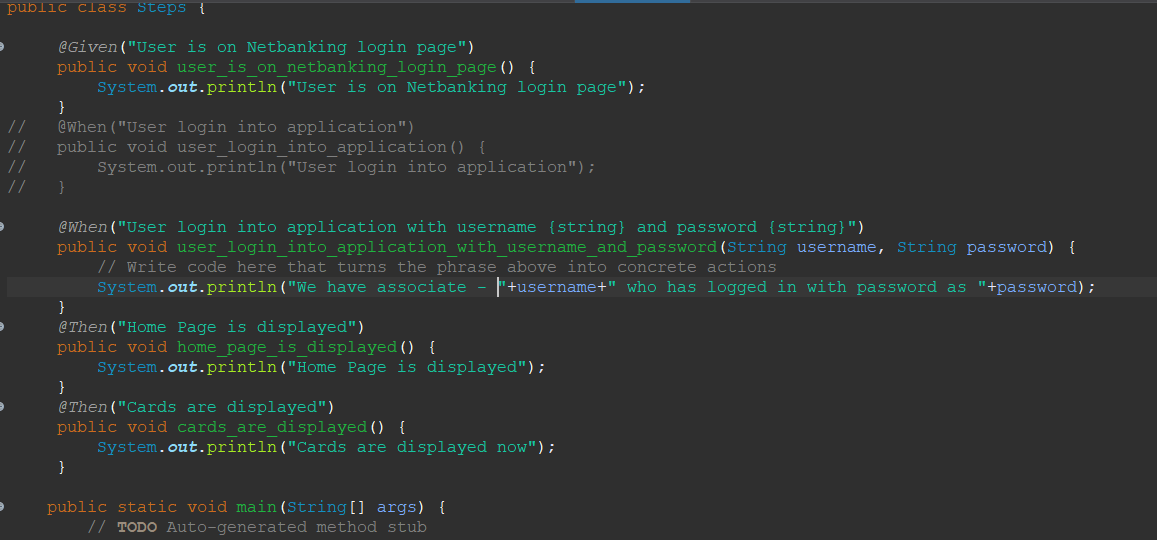
===============================================

**Code Reusability:-**

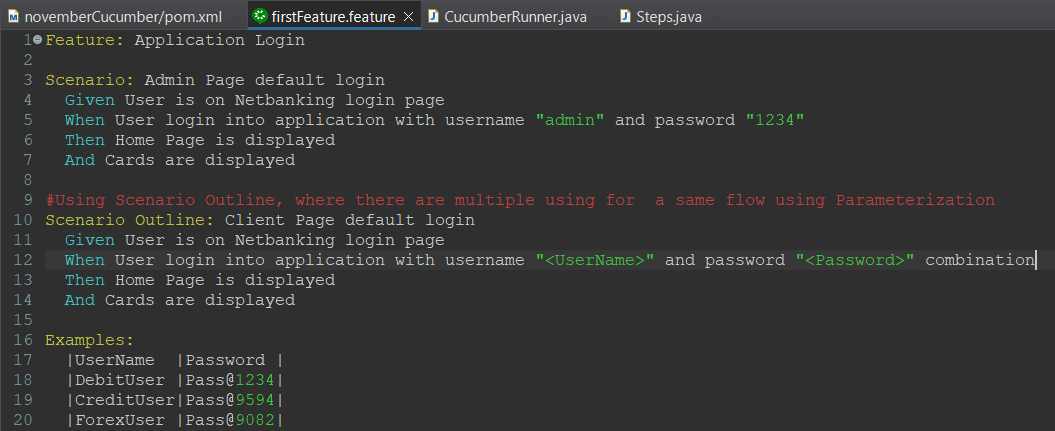
**Feature File:-**

****

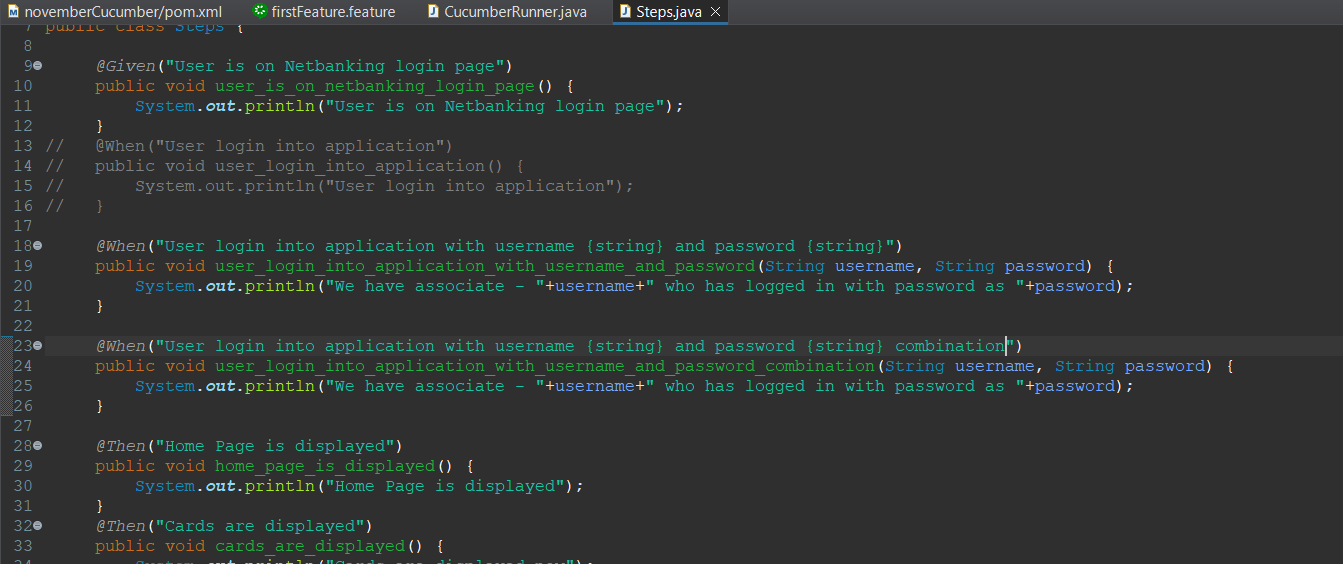
**StepDefinitionChanges:-**

****

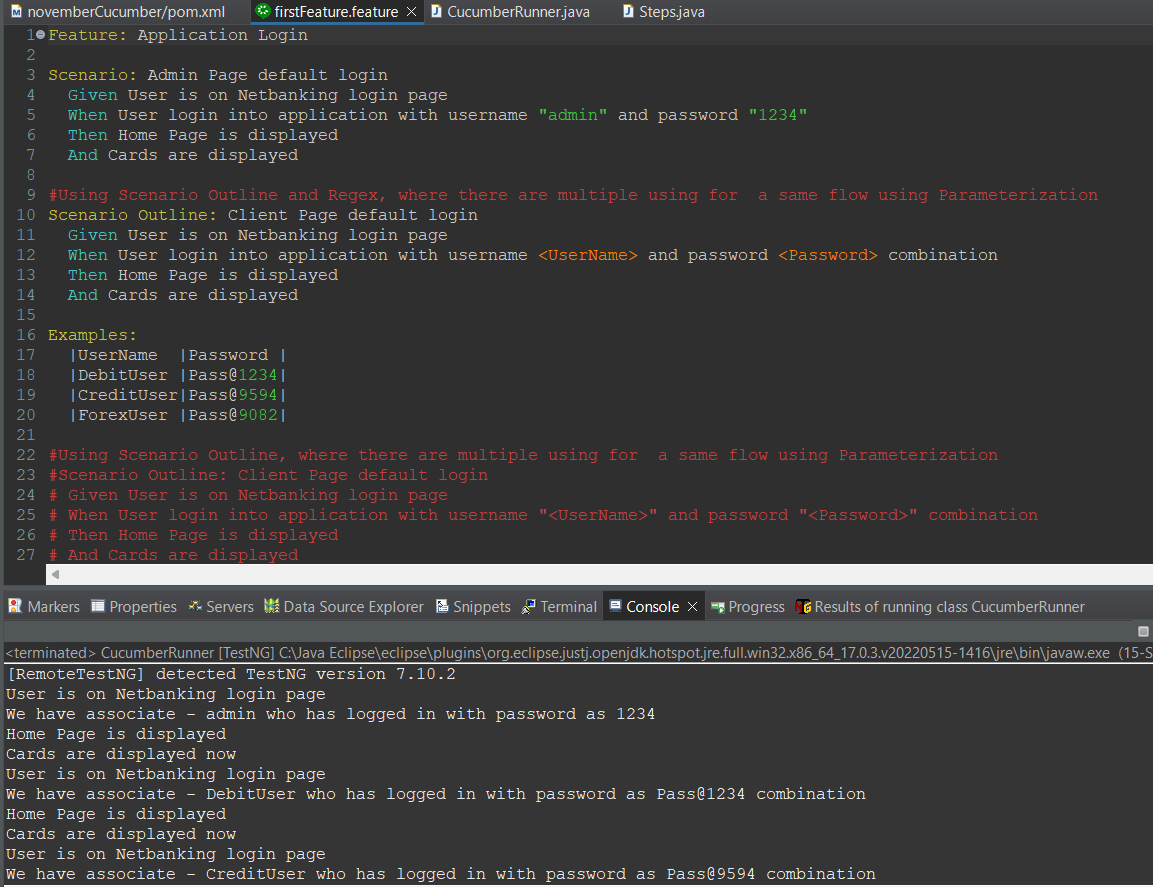
**Scenario Outline:- To use Parametrization for using multiple steps with same step definitions.**

****

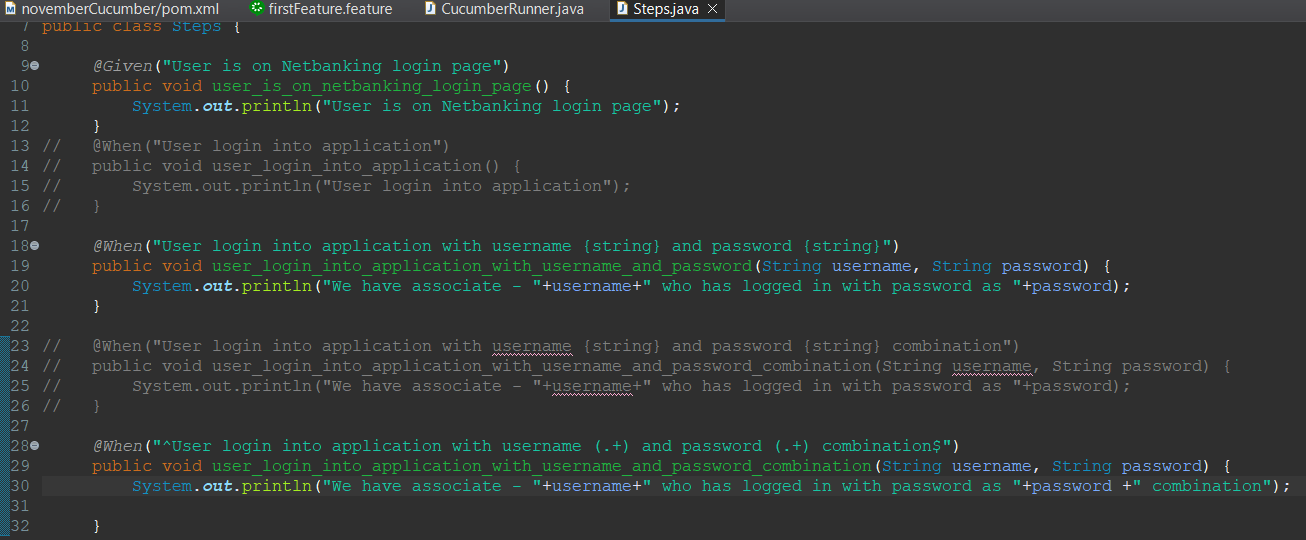
**StepDefinition:-**

****

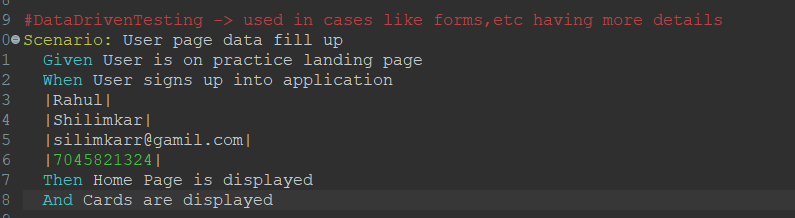
**Using Regex:- This is used to send any kind of data without specifying data Type.**

****

**StepDefinition Using Regex - ^$ and(.+)**

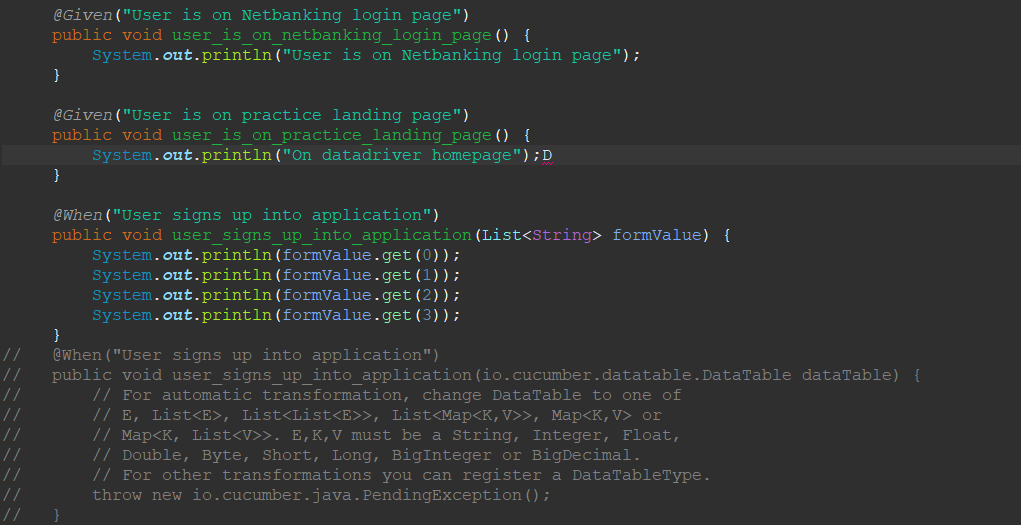
****

**DataDriven Testing:-**

****

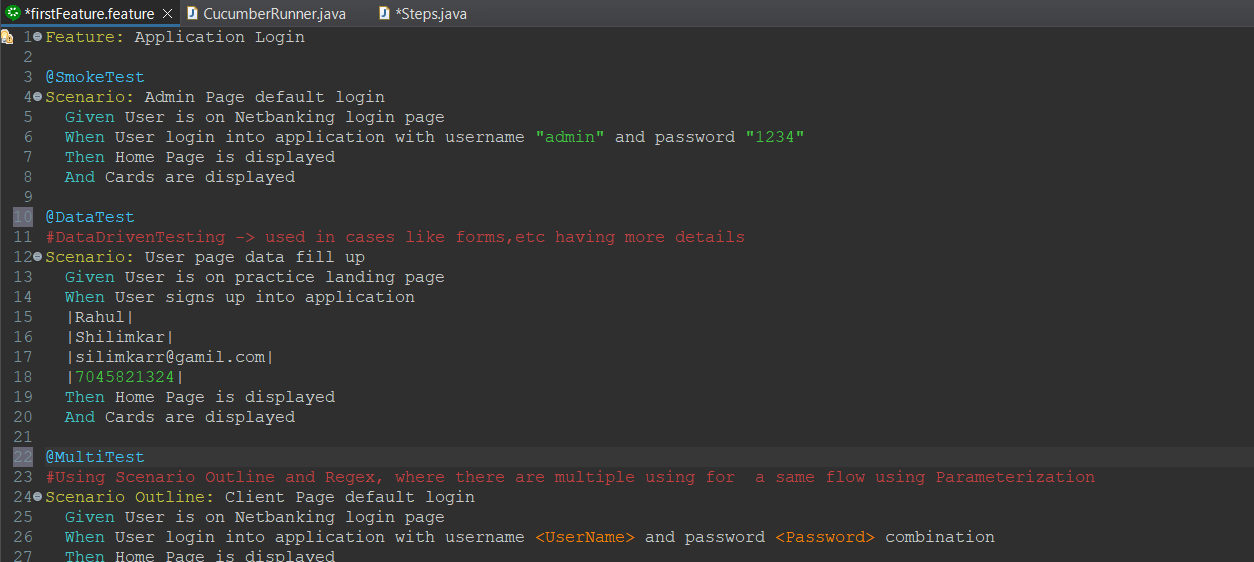
**StepDefinition:-**

**List is used since we are getting multiple value’s in it.**

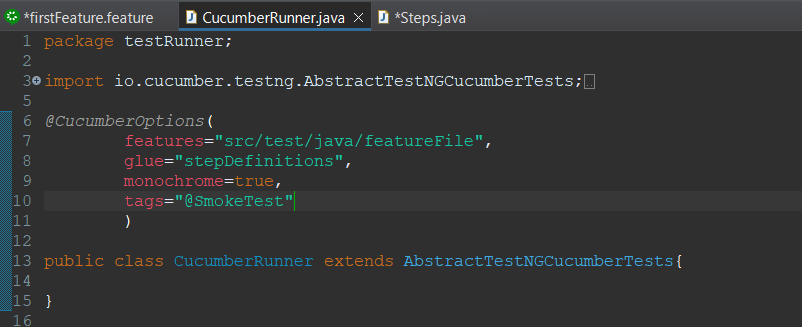
****

**Tags:- This are used to select the specific tests to run**

**Feature File:-**

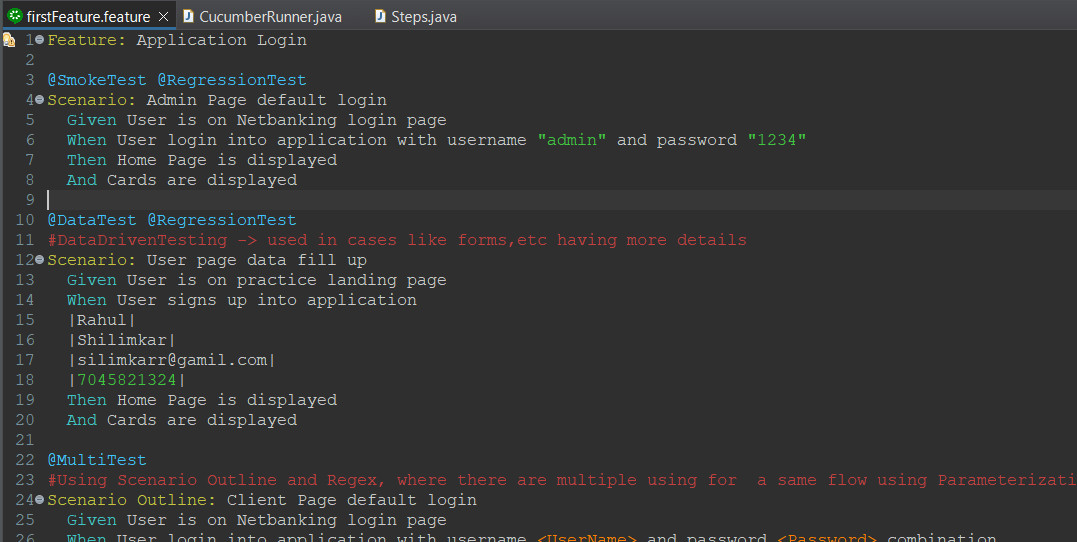
****

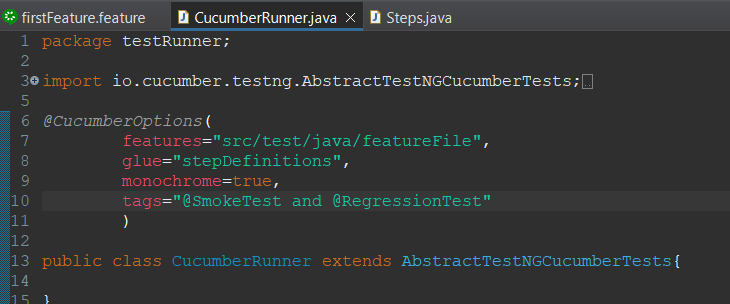
**TestRunner File:-**

****

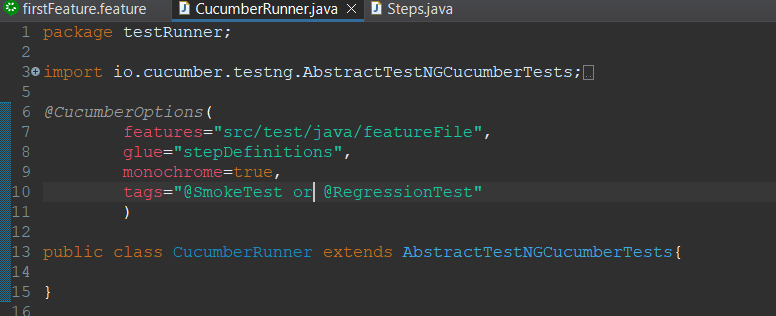
**Output:- This will run only One test @SmokeTest**

**Multiple Tags:-**

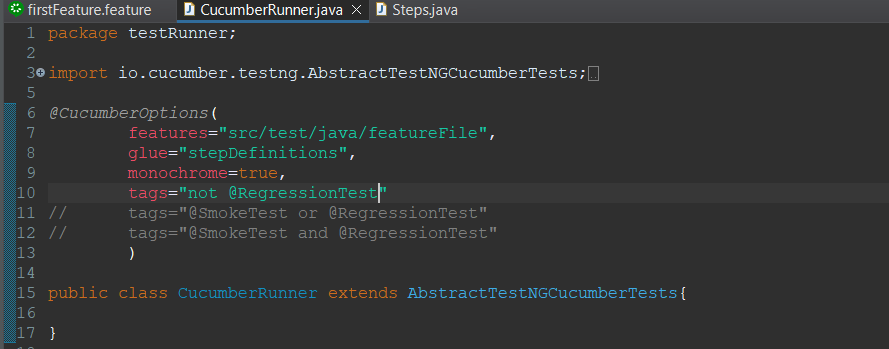
****

**This will run only first Scenario having both smoke and regression**

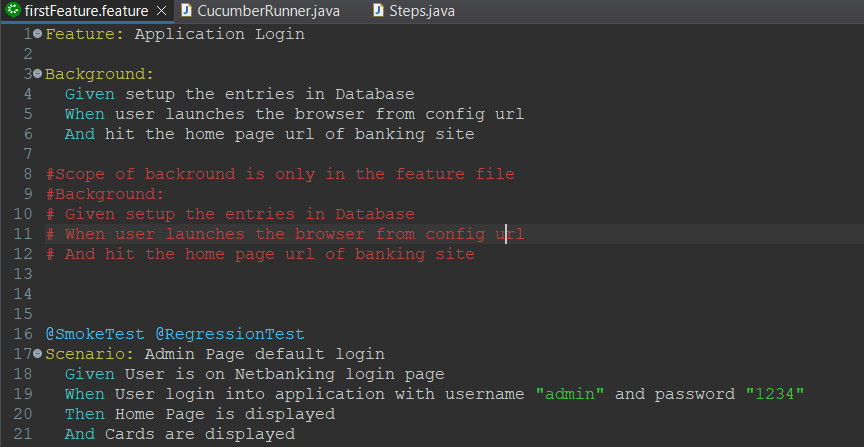
**Using “OR” - OR will run both first and Second usecase**

****

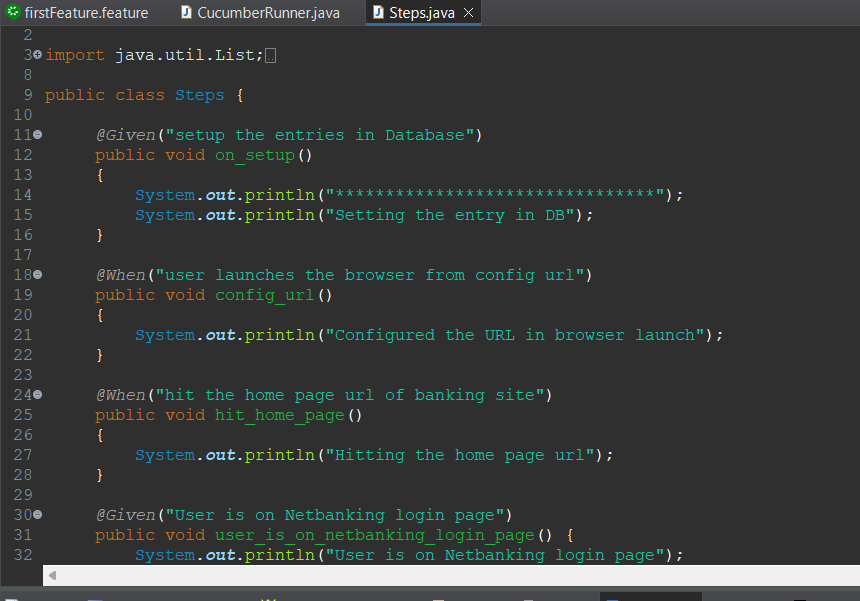
**Using NOT:- This will skip the test’s having given Tags.**

****

**🡸Background🡺Used to run cases/steps which are same for all the scenario’s in FeatureFile.**

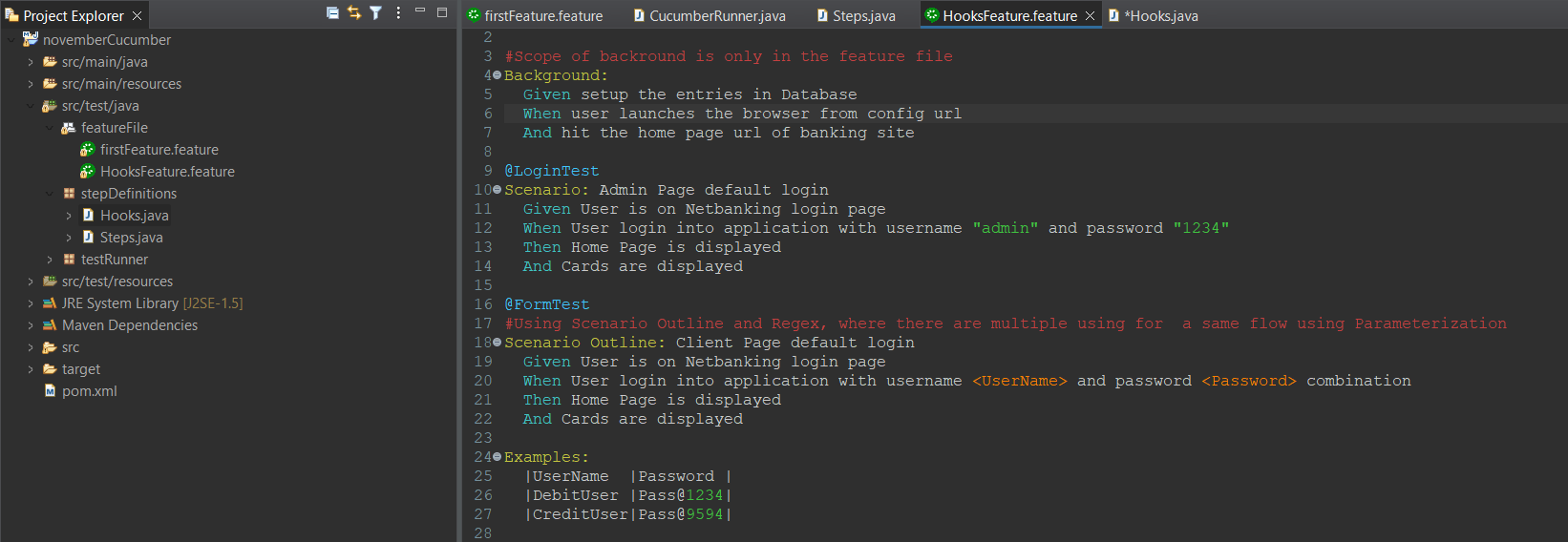


**Step Definition:-**



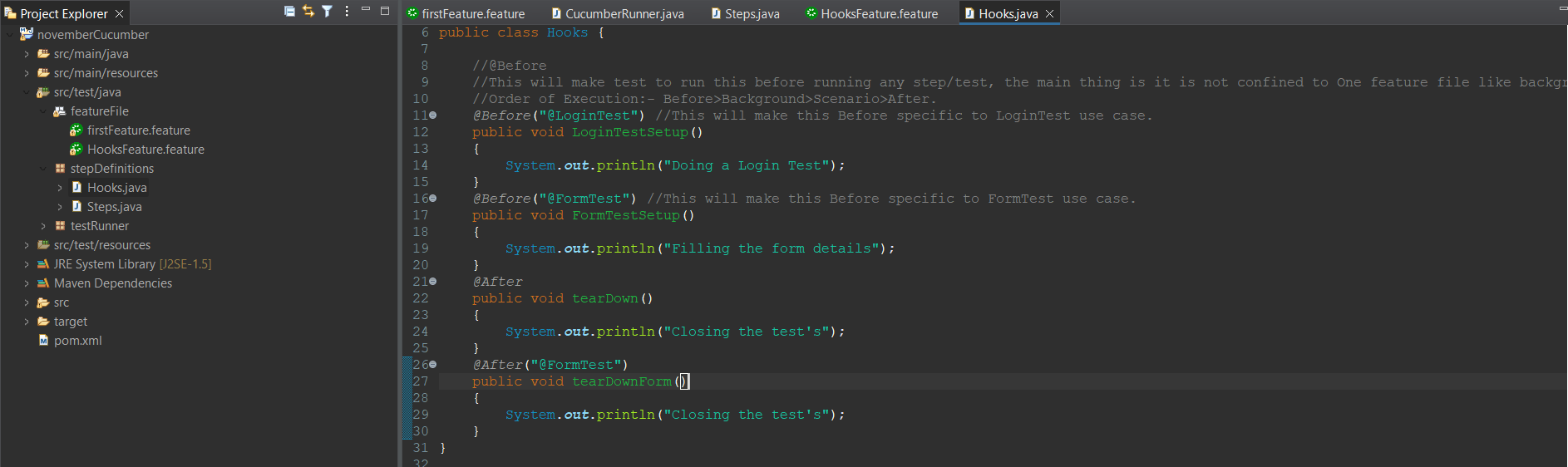
**Cucumber Hooks:- Used when there are no common across files but in cases of some are having common or landing on same page.**

**CucumberHooksFeatureFile:-**

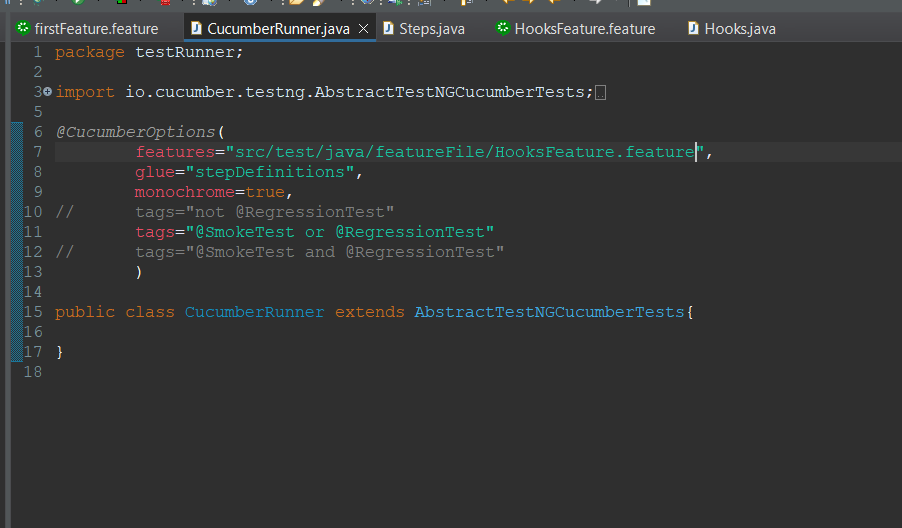
****

**Now, create a Class named Hooks.java in StepDefinition Folder/Package.**

**Order of Execution:- Before>Background>Scenario>After.**

****

**Runner file to define specific test:-**

****

**Output:-**

**[RemoteTestNG] detected TestNG version 7.10.2**

**Doing a Login Test**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Setting the entry in DB**

**Configured the URL in browser launch**

**Hitting the home page url**

**User is on Netbanking login page**

**We have associate - admin who has logged in with password as 1234**

**Home Page is displayed**

**Cards are displayed now**

**Closing the test's**

**Filling the form details**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Setting the entry in DB**

**Configured the URL in browser launch**

**Hitting the home page url**

**User is on Netbanking login page**

**We have associate - DebitUser who has logged in with password as Pass@1234 combination**

**Home Page is displayed**

**Cards are displayed now**

**Closing the test's**

**Closing the test's**

**Filling the form details**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Setting the entry in DB**

**Configured the URL in browser launch**

**Hitting the home page url**

**User is on Netbanking login page**

**We have associate - CreditUser who has logged in with password as Pass@9594 combination**

**Home Page is displayed**

**Cards are displayed now**

**Closing the test's**

**Closing the test's**

**PASSED: io.cucumber.testng.AbstractTestNGCucumberTests.runScenario("Client Page default login", "Application Login")**

**Runs Cucumber Scenarios**

**PASSED: io.cucumber.testng.AbstractTestNGCucumberTests.runScenario("Admin Page default login", "Application Login")**

**Runs Cucumber Scenarios**

**PASSED: io.cucumber.testng.AbstractTestNGCucumberTests.runScenario("Client Page default login", "Application Login")**

**Runs Cucumber Scenarios**

**===============================================**

**Default test**

**Tests run: 1, Failures: 0, Skips: 0**

**===============================================**

**===============================================**

**Default suite**

**Total tests run: 3, Passes: 3, Failures: 0, Skips: 0**

**===============================================**