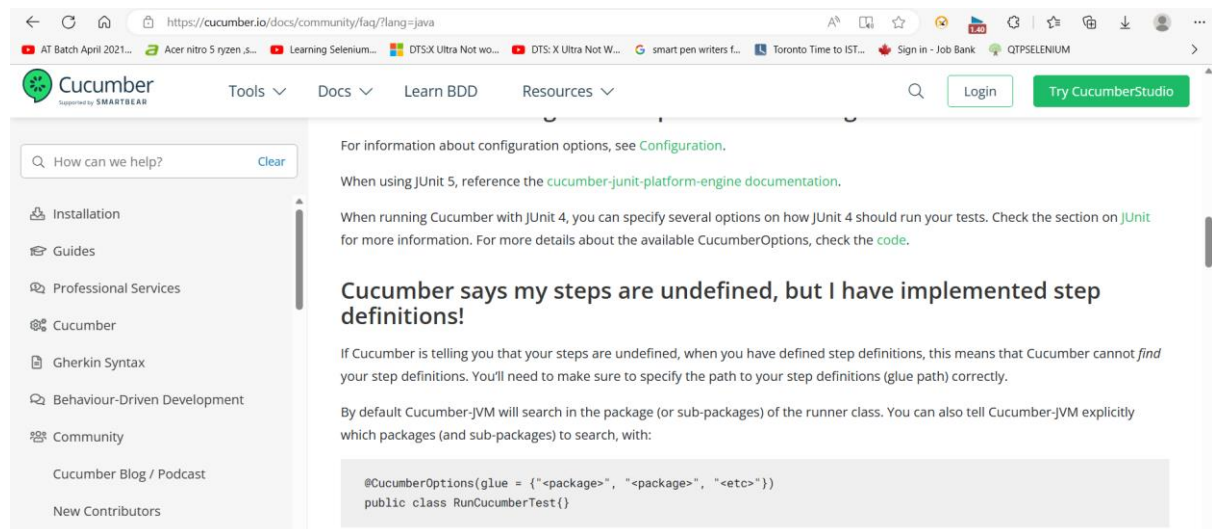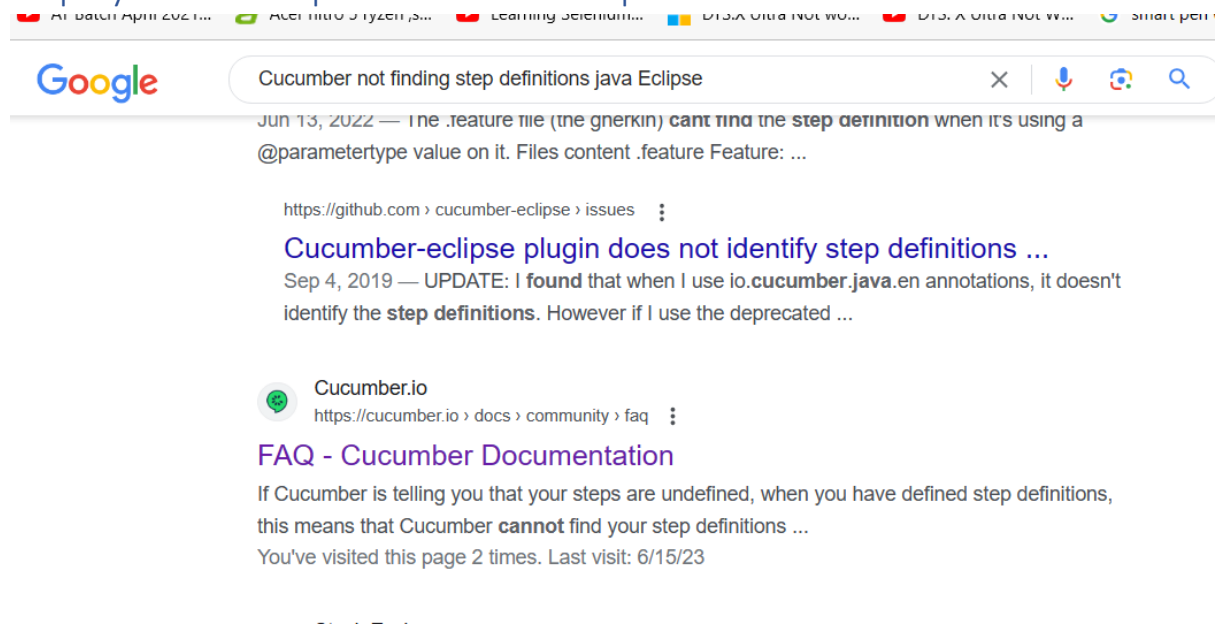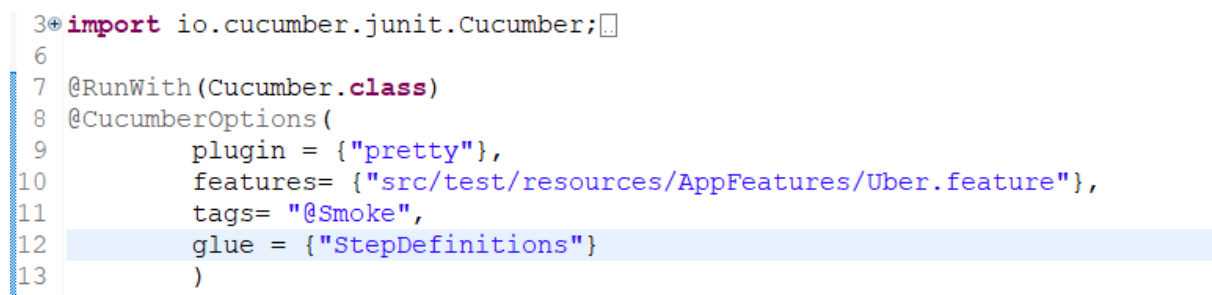# When you get this error- Steps are defined and glued but still error is displayed that step definition is not present-

Write only the package name and remove the full path which we had given like "/src/test/resources/StepDefinitions".

```
3⊕ import io.cucumber.junit.Cucumber;

6
7  @RunWith(Cucumber.class)
8  @CucumberOptions(
9         plugin = {"pretty"},
10        features= {"src/test/resources/AppFeatures/Uber.feature"},
11        tags= "@Smoke",
12        glue = {"StepDefinitions"}
13        )
```

Run with tag = smoke-

Feature file:

```gherkin
Feature: Uber Booking Feature

@Smoke
Scenario: Booking Cab
Given User selects car type "Sedan" from app
When user selects car as "Sedan" and pick up as "bangalore" and drop as
"pine"
Then driver starts the journey
And driver ends the journey
Then user pays 100 us dollars

@Regression
Scenario: Booking Cab
Given User selects car type "suv" from app
When user selects car as "suv" and pick up as "bangalore" and drop as
"hyderabad"
Then driver starts the journey
And driver ends the journey
Then user pays 100 us dollars

@Prod
Scenario: Booking Cab
Given User selects car type "mini" from app
When user selects car as "mini" and pick up as "mumbai" and drop as
"pine"
Then driver starts the journey
And driver ends the journey
Then user pays 100 us dollars
```

Step def of uber:

Even though we have written multiple scenarios, since there is no change in feature file, except passing different sets of data, so the same code will work.

```java
package StepDefinitions;

import io.cucumber.java.en.Given;
import io.cucumber.java.en.Then;
import io.cucumber.java.en.When;

public class UberBookingStepDef {

        @Given("User selects car type {string} from app")
        public void user_selects_car_type_from_app(String carType) {
                System.out.println("step 1" + carType);
        }

        @When("user selects car as {string} and pick up as {string} and drop as {string}")
        public void user_selects_car_as_and_pick_up_as_and_drop_as(String carType, String
pickupLocation,
```

```
                        String dropLocation) {
            System.out.println("step 2" + carType + " " + pickupLocation + " " + dropLocation);
        }

        @Then("driver starts the journey")
        public void driver_starts_the_journey() {
            System.out.println("step 3");
        }

        @Then("driver ends the journey")
        public void driver_ends_the_journey() {
            System.out.println("step 4");
        }

        @Then("user pays {int} us dollars")
        public void user_pays_us_dollars(Integer price) {
            System.out.println("step 5" + " " + price);
        }

}
```

Runner of uber:

```
package testRunners;

import io.cucumber.junit.Cucumber;
import io.cucumber.junit.CucumberOptions;
import org.junit.runner.RunWith;

@RunWith(Cucumber.class)
@CucumberOptions(plugin = { "pretty" }, features = {
                "src/test/resources/AppFeatures/Uber.feature" }, tags = "@Smoke", glue = {
"StepDefinitions" })

//tags cannot be applied to given, when, then etc etc.
//tags can be applied at feature level. by default it will be applied on all scenarios.
//tags can be applied at scenario level.
//tags can be applied at scenario outline level.

public class UberBookingTest {

}
```

Output:

Added multiple values to the tag with OR operation-

Runner file:

```
package testRunners;

import io.cucumber.junit.Cucumber;
import io.cucumber.junit.CucumberOptions;
import org.junit.runner.RunWith;

@RunWith(Cucumber.class)
@CucumberOptions(plugin = { "pretty" }, features = {
                "src/test/resources/AppFeatures/Uber.feature" }, tags = "@Smoke or
@Regression", glue = { "StepDefinitions" })

//tags cannot be applied to given, when, then etc etc.
//tags can be applied at feature level. by default it will be applied on all scenarios.
//tags can be applied at scenario level.
//tags can be applied at scenario outline level.
//we can run with multiple tags.

public class UberBookingTest {

}
```
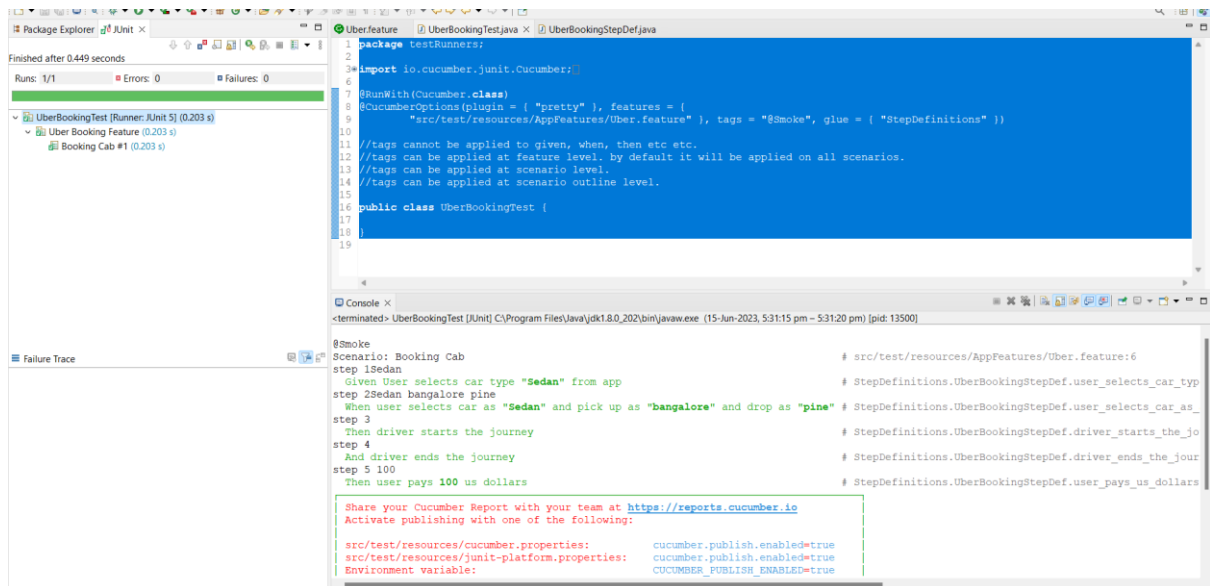
Output:

Console:
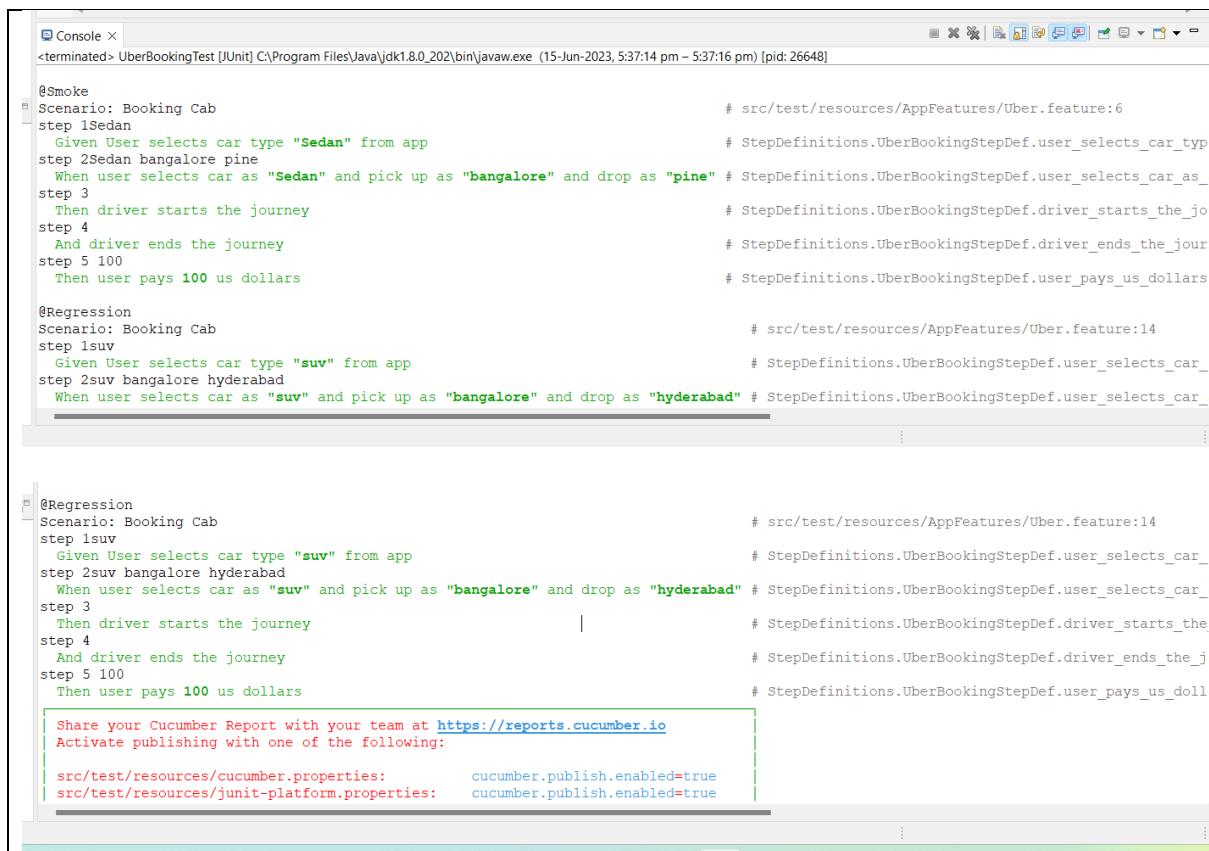
Multiple tag values with "and" operation-

Runner file with and:

```
package testRunners;

import io.cucumber.junit.Cucumber;
import io.cucumber.junit.CucumberOptions;
import org.junit.runner.RunWith;

@RunWith(Cucumber.class)
@CucumberOptions(plugin = { "pretty" }, features = {
                "src/test/resources/AppFeatures/Uber.feature" }, tags = "@Smoke and
@Regression", glue = { "StepDefinitions" })
```
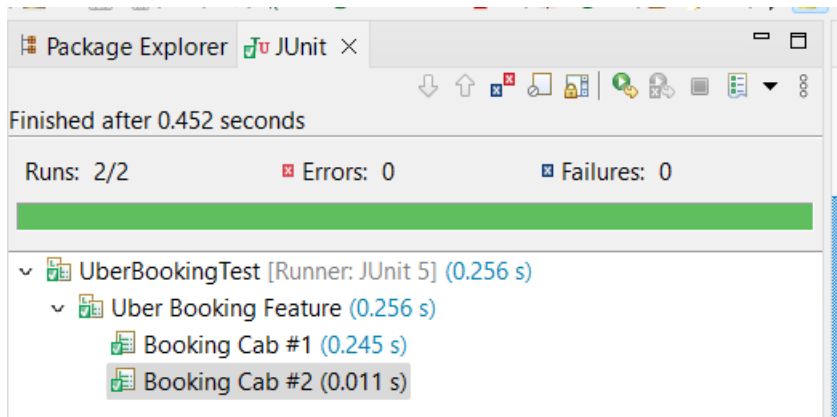
```
//tags cannot be applied to given, when, then etc etc.
//tags can be applied at feature level. by default it will be applied on all scenarios.
//tags can be applied at scenario level.
//tags can be applied at scenario outline level.
//we can run with multiple tags.

public class UberBookingTest {

}
```

Output:

Nothing returned as there is no scenario with both tags (Smoke and Regression) present.

Add multiple tags to scenario-

Feature file:

```
12
13 @Regression @Smoke
14 Scenario: Booking Cab
15 Given User selects car type "suv" from app
16 When user selects car as "suv" and pick up as "bangalore" and drop as "hyderabad"
17 Then driver starts the journey
18 And driver ends the journey
19 Then user pays 100 us dollars
20
```

Run the runner as junit:
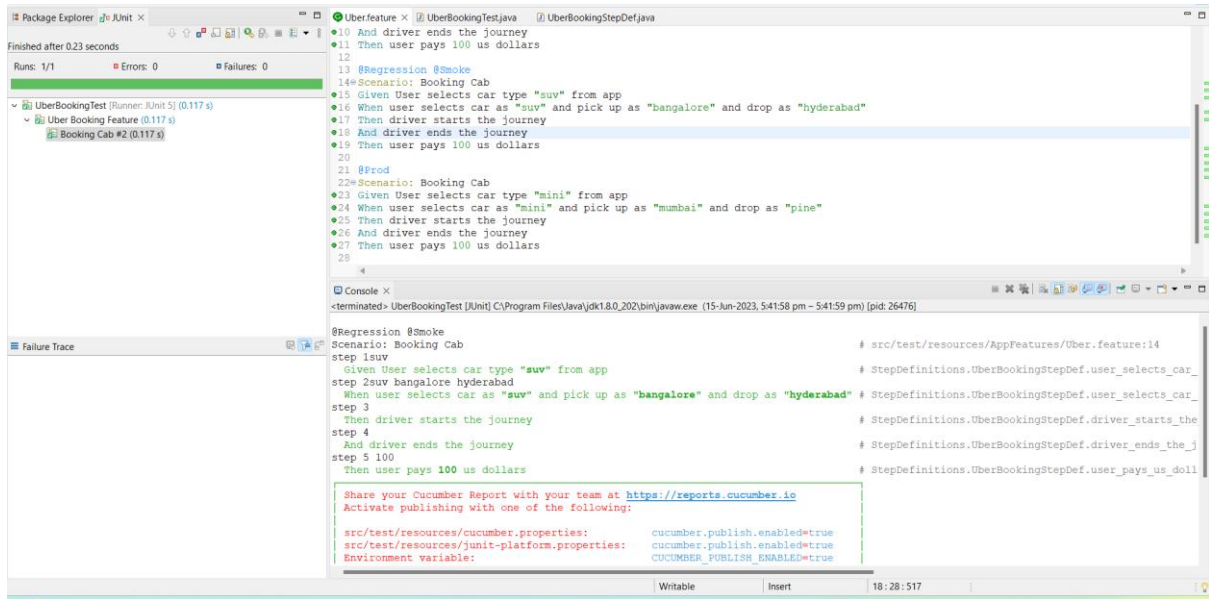
Using not operator in runner-

Runner:


```java
1  package testRunners;
2
3  import io.cucumber.junit.Cucumber;
6
7  @RunWith(Cucumber.class)
8  @CucumberOptions(plugin = { "pretty" }, features = {
9          "src/test/resources/AppFeatures/Uber.feature" }, tags = "not @Prod", glue = { "StepDefinitions" })
10
11 //tags cannot be applied to given, when, then etc etc.
12 //tags can be applied at feature level. by default it will be applied on all scenarios.
13 //tags can be applied at scenario level.
14 //tags can be applied at scenario outline level.
15 //we can run with multiple tags.
16
17 public class UberBookingTest {
18
19 }
20
```
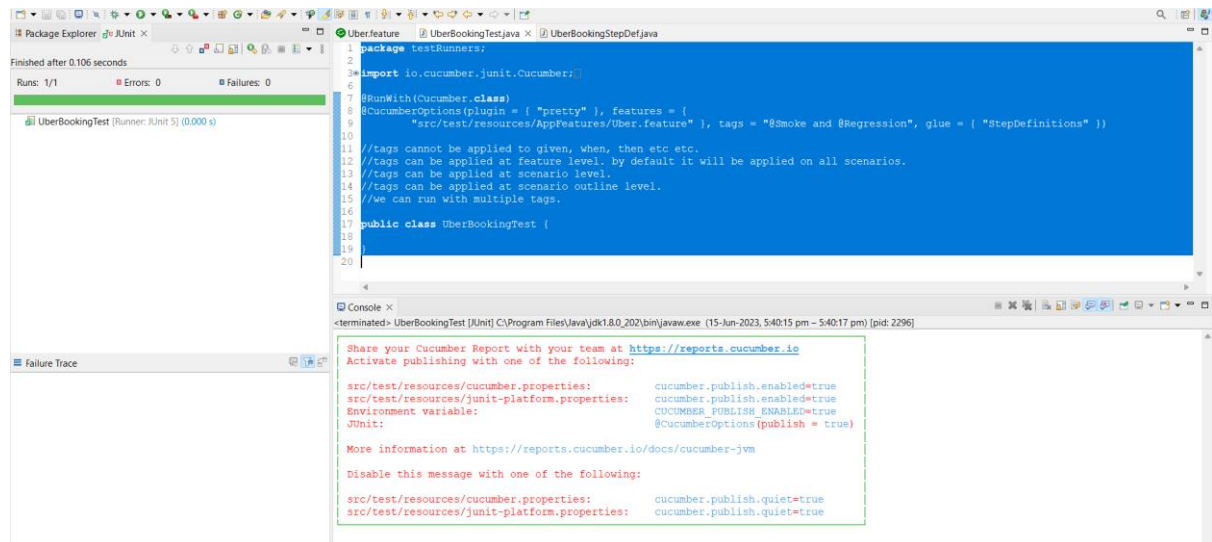
Junit output:

Console output:

```
Console ×
<terminated> UberBookingTest [JUnit] C:\Program Files\Java\jdk1.8.0_202\bin\javaw.exe  (15-Jun-2023, 5:44:25 pm – 5:44:27 pm) [pid: 4272]

@Smoke
Scenario: Booking Cab Sedan                                              # src/test/r
step 1Sedan
  Given User selects car type "Sedan" from app                          # StepDefini
step 2Sedan bangalore pine
  When user selects car as "Sedan" and pick up as "bangalore" and drop as "pine" # StepDefini
step 3
  Then driver starts the journey                                        # StepDefini
step 4
  And driver ends the journey                                           # StepDefini
step 5 100
  Then user pays 100 us dollars                                         # StepDefini

@Regression @Smoke
Scenario: Booking Cab SUV                                                # src/tes
step 1suv
  Given User selects car type "suv" from app                            # StepDef
step 2suv bangalore hyderabad
  When user selects car as "suv" and pick up as "bangalore" and drop as "hyderabad" # StepDef
step 3
  Then driver starts the journey                                        # StepDef
step 4
  And driver ends the journey                                           # StepDef
step 5 100
  Then user pays 100 us dollars                                         # StepDef

Share your Cucumber Report with your team at https://reports.cucumber.io
```

"All" tag at feature level-

All scenarios for the feature will inherit the feature level tags.

Feature file:

```
2  @All
3  Feature: Uber Booking Feature
4
5  @Smoke
```

Runner file:

```
1  package testRunners;
2
3  import io.cucumber.junit.Cucumber;
6
7  @RunWith(Cucumber.class)
8  @CucumberOptions(plugin = { "pretty" }, features = {
9          "src/test/resources/AppFeatures/Uber.feature" }, tags = "@All", glue = { "StepDefinitions" })
10
```

Junit output:

```
Finished after 0.258 seconds

Runs: 3/3          Errors: 0          Failures: 0

v  UberBookingTest [Runner: JUnit 5] (0.158 s)
   v  Uber Booking Feature (0.158 s)
         Booking Cab Sedan (0.148 s)
         Booking Cab SUV (0.005 s)
         Booking Cab MINI (0.005 s)
```
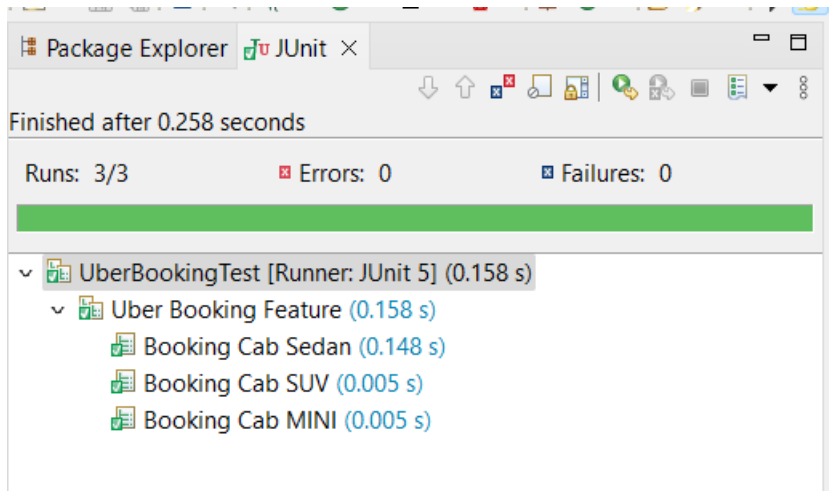
Package Explorer | JUnit ×

Finished after 0.258 seconds

Runs: 3/3   Errors: 0   Failures: 0

✓ UberBookingTest [Runner: JUnit 5] (0.158 s)
  ✓ Uber Booking Feature (0.158 s)
      Booking Cab Sedan (0.148 s)
      Booking Cab SUV (0.005 s)
      Booking Cab MINI (0.005 s)

Console output:

See, every scenario has the "@All" tag associated.

```
@All @Smoke
Scenario: Booking Cab Sedan                                          # S
step 1Sedan
  Given User selects car type "Sedan" from app                      # S
step 2Sedan bangalore pine
  When user selects car as "Sedan" and pick up as "bangalore" and drop as "pine" # S
step 3
  Then driver starts the journey                                    # S
step 4
  And driver ends the journey                                       # S
step 5 100
  Then user pays 100 us dollars                                     # S

@All @Regression @Smoke
Scenario: Booking Cab SUV
step 1suv
  Given User selects car type "suv" from app
step 2suv bangalore hyderabad
  When user selects car as "suv" and pick up as "bangalore" and drop as "hyderabad"
step 3
  Then driver starts the journey
step 4
  And driver ends the journey
step 5 100
  Then user pays 100 us dollars

@All @Prod
Scenario: Booking Cab MINI                                          #
step 1mini
  Given User selects car type "mini" from app                      #
step 2mini mumbai pine
  When user selects car as "mini" and pick up as "mumbai" and drop as "pine" #
step 3
  Then driver starts the journey                                   #
step 4
  And driver ends the journey                                      #
step 5 100
  Then user pays 100 us dollars                                    #
```

Run from maven-

Open cmd.

Go to project path.

Type "mvn test"

You should get all success.

How to override the tags written inside runner using maven command line-

Upto cucumber 6 we needed to use the word "-Dcucumber.options". From cucumber 6 we started using "filters".

The "prod" tag did not run as we have overridden "tags=All" inside runner file, with maven filters.

```
@All @Smoke
Scenario: Booking Cab Sedan                                              # src/test/resou
step 1Sedan
  Given User selects car type "Sedan" from app                          # StepDefinitions
ng.String)
step 2Sedan bangalore pine
  When user selects car as "Sedan" and pick up as "bangalore" and drop as "pine" # StepDefinitions
_drop_as(java.lang.String,java.lang.String,java.lang.String)
step 3
  Then driver starts the journey                                        # StepDefinitions
step 4
  And driver ends the journey                                           # StepDefinitions
step 5 100
  Then user pays 100 us dollars                                         # StepDefinitions
)

@All @Regression @Smoke
Scenario: Booking Cab SUV                                               # src/test/res
step 1suv
  Given User selects car type "suv" from app                           # StepDefiniti
.lang.String)
step 2suv bangalore hyderabad
  When user selects car as "suv" and pick up as "bangalore" and drop as "hyderabad" # StepDefiniti
and_drop_as(java.lang.String,java.lang.String,java.lang.String)
step 3
  Then driver starts the journey                                        # StepDefiniti
step 4
  And driver ends the journey                                           # StepDefiniti
step 5 100
  Then user pays 100 us dollars                                         # StepDefiniti
ger)
????????????????????????????????????????????????????????????????????????????????????
? Share your Cucumber Report with your team at https://reports.cucumber.io      ?
```

```
? src/test/resources/junit-platform.properties:    cucumber.publish.quiet=true    ?
????????????????????????????????????????????????????????????????????????????????????
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.739 s - in testRunners.UberBookingTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  3.592 s
[INFO] Finished at: 2023-06-15T17:57:47+02:00
[INFO] ------------------------------------------------------------------------
[WARNING]
[WARNING] Plugin validation issues were detected in 3 plugin(s)
[WARNING]
```

We can use such naming conventions to link to jira and epics and for reporting purpose-

```
 4
 5 @Smoke @qa-ready @US-1001 @Epic-900
 6 Scenario: Booking Cab Sedan
 7 Given User wants to select a car type "sedan" from uber application
 8 When User selects car "sedan" and pick up point "Bangalore" and drop location "Pune"
 9 Then Driver starts the journey
10 And Driver ends the journey
11 Then User pays 1000 USD
12
```

Codes for reference purpose –

Feature file:

```
@All
Feature: Uber Booking Feature

@Smoke
```

```
Scenario: Booking Cab Sedan
Given User selects car type "Sedan" from app
When user selects car as "Sedan" and pick up as "bangalore" and drop as
"pine"
Then driver starts the journey
And driver ends the journey
Then user pays 100 us dollars

@Regression @Smoke
Scenario: Booking Cab SUV
Given User selects car type "suv" from app
When user selects car as "suv" and pick up as "bangalore" and drop as
"hyderabad"
Then driver starts the journey
And driver ends the journey
Then user pays 100 us dollars

@Prod
Scenario: Booking Cab MINI
Given User selects car type "mini" from app
When user selects car as "mini" and pick up as "mumbai" and drop as
"pine"
Then driver starts the journey
And driver ends the journey
Then user pays 100 us dollars
```

Runner file:

```
package testRunners;

import io.cucumber.junit.Cucumber;
import io.cucumber.junit.CucumberOptions;
import org.junit.runner.RunWith;

@RunWith(Cucumber.class)
@CucumberOptions(plugin = { "pretty" }, features = {
                "src/test/resources/AppFeatures/Uber.feature" }, tags = "@All", glue = {
"StepDefinitions" })

//tags cannot be applied to given, when, then etc etc.
//tags can be applied at feature level. by default it will be applied on all scenarios.
//tags can be applied at scenario level.
//tags can be applied at scenario outline level.
//we can run with multiple tags.

public class UberBookingTest {

}
```

Step def file:

```
package StepDefinitions;

import io.cucumber.java.en.Given;
import io.cucumber.java.en.Then;
import io.cucumber.java.en.When;

public class UberBookingStepDef {
```

```
        @Given("User selects car type {string} from app")
        public void user_selects_car_type_from_app(String carType) {
                System.out.println("step 1" + carType);
        }

        @When("user selects car as {string} and pick up as {string} and drop as {string}")
        public void user_selects_car_as_and_pick_up_as_and_drop_as(String carType, String
pickupLocation,
                        String dropLocation) {
                System.out.println("step 2" + carType + " " + pickupLocation + " " + dropLocation);
        }

        @Then("driver starts the journey")
        public void driver_starts_the_journey() {
                System.out.println("step 3");
        }

        @Then("driver ends the journey")
        public void driver_ends_the_journey() {
                System.out.println("step 4");
        }

        @Then("user pays {int} us dollars")
        public void user_pays_us_dollars(Integer price) {
                System.out.println("step 5" + " " + price);
        }

}
```

Output is shown above in this document when we ran the code.