

Not a great format to use-

If there are 100 fields what we will do?

```

2
3-Scenario: user registration with different data
4  Given User is on registration page
5  When User enters firstname
6  When user enters lastname
7  When user enters phone |
8

```

Feature file:

```

Feature: user registration

Scenario: user registration with different data
Given user is on registration page
When user enters the following details
    | naveen | automation | nav@gmail | 234324 | bangalore |
    | tom | manual | tom@yahoo | 23432 | pune |
    | robert | sdet | robert@michi | 234234 | london |
Then user registration is successful

```

Step def:

```

package StepDefinitions;

import java.util.List;

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

public class UserRegistration {

    @Given("user is on registration page")
    public void user_is_on_registration_page() {
        System.out.println("user navigates on registration page");
    }

    @When("user enters the following details")
    public void user_enters_the_following_details(DataTable dataTable) {
        List<List<String>> userList=dataTable.asLists(String.class);// this step will first take the
String input.
        //as Lists returns List of List of Objects.
        //this for loop will print row by row data.
        for(List<String> e:userList) {
            System.out.println(e);
        }

    }

    @Then("user registration is successful")

```

```

        public void user_registration_is_successful() {
            System.out.println("user registration is successful");
        }
    }
}

```

Output:

```

Scenario: user registration with different data # src/
user navigates on registration page
    Given user is on registration page # Step
    [naveen, automation, nav@gmail, 234324, bangalore]
    [tom, manual, tom@yahoo, 23432, pune]
    [robert, sdet, robert@michi, 234234, london]
    When user enters the following details # Step
    (io.cucumber.datatable.DataTable)
    user registration is successful
    Then user registration is successful # Step

1 Scenarios (1 passed)
3 Steps (3 passed)
0m0.289s

```

Data table used when we want to fill in large quantities of data.

Example, form filling.

Data table can be applied for any step – given or when or then etc.

Created runner file:

```

package testRunners;

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

@RunWith(Cucumber.class)

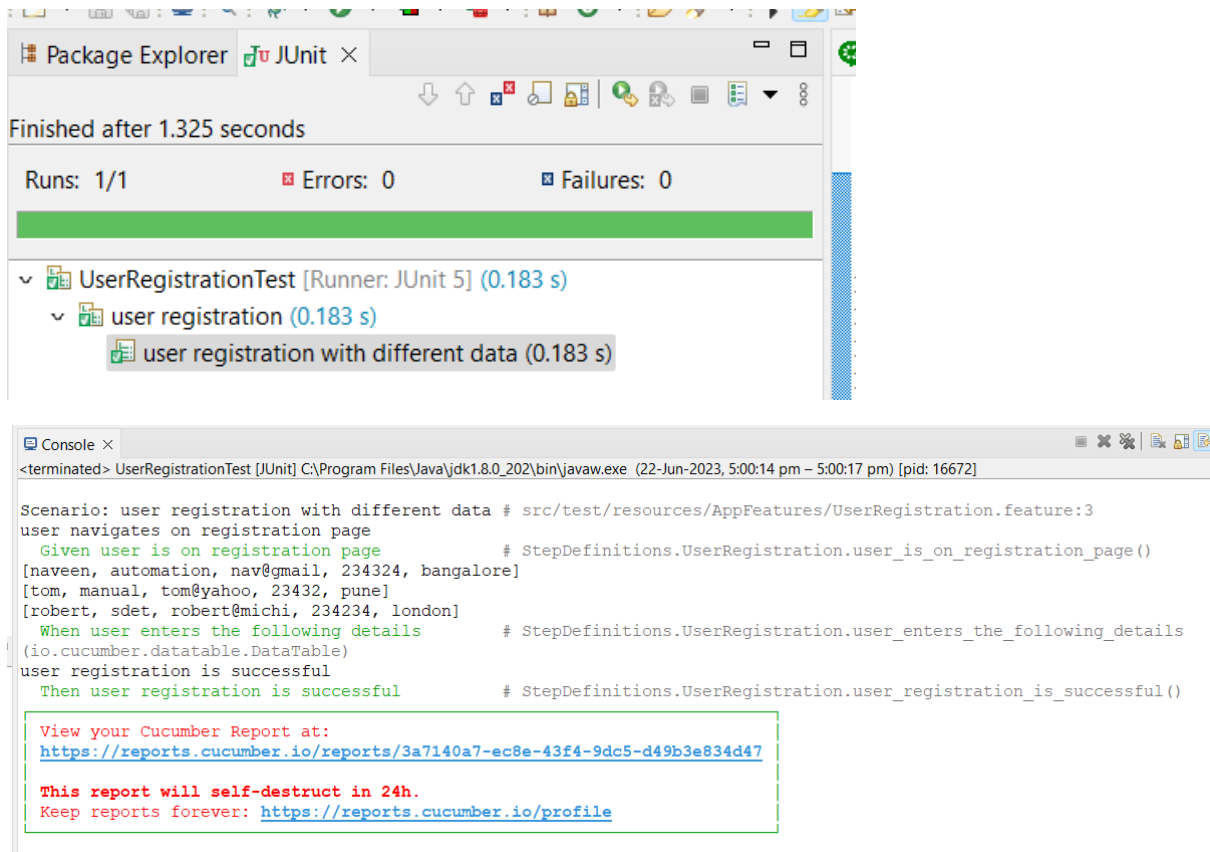
@CucumberOptions( plugin= {"pretty", "json:target/MyReports/report.json",
                        "junit:target/MyReports/report.xml"},
    features = {"src/test/resources/AppFeatures/UserRegistration.feature" },
    glue = { "StepDefinitions"},
    monochrome=false,
    dryRun =false
)

public class UserRegistrationTest {

}

```

Output:



See report how it is seen.

file:///E:/Naveen%20Java%20Training/Cucumber/CucumberPractices/src/test/resources

Report Edit

Feature: user registration

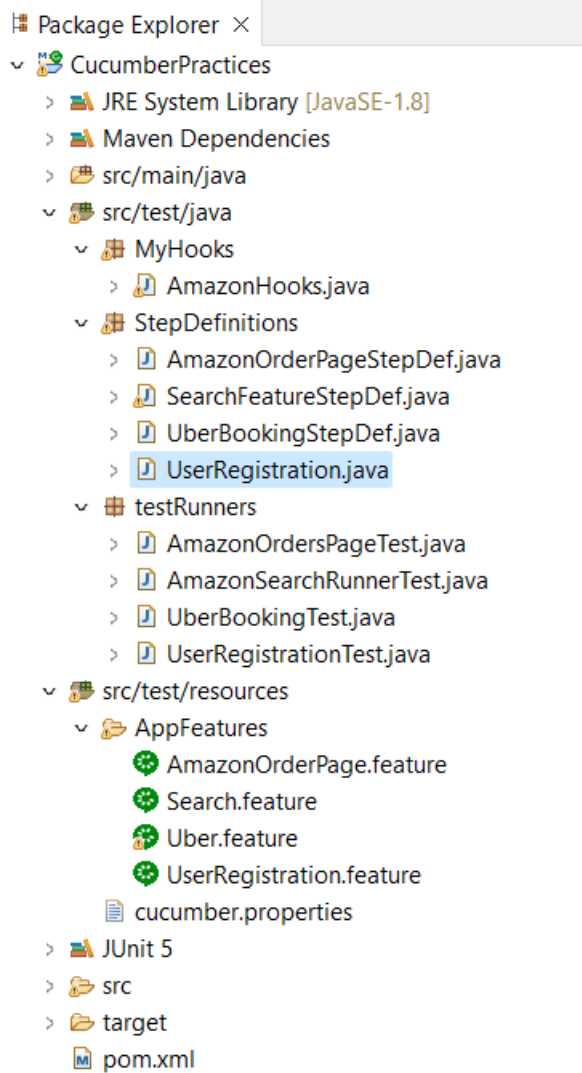
Scenario: user registration with different data

- ✓ **Given** user is on registration page
- ✓ **When** user enters the following details

naveen	automation	nav@gmail	234324	bangalore
tom	manual	tom@yahoo	23432	pune
robert	sdet	robert@michi	234234	london

- ✓ **Then** user registration is successful

Project structure-



Codes for this chapter-

Feature.

```
Feature: user registration

Scenario: user registration with different data
Given user is on registration page
When user enters the following details
    | naveen | automation | nav@gmail | 234324 | bangalore |
    | tom | manual | tom@yahoo | 23432 | pune |
    | robert | sdet | robert@michi | 234234 | london |
Then user registration is successful
```

Step def.

```
package StepDefinitions;

import java.util.List;

import io.cucumber.datatable.DataTable;
import io.cucumber.java.en.Given;
```

```

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

public class UserRegistration {

    @Given("user is on registration page")
    public void user_is_on_registration_page() {
        System.out.println("user navigates on registration page");
    }

    @When("user enters the following details")
    public void user_enters_the_following_details(DataTable dataTable) {
        List<List<String>> userList=dataTable.asLists(String.class);// this step will first take the
String input.
        //as Lists returns List of List of Objects.
        //this for loop will print row by row data.
        for(List<String> e:userList) {
            System.out.println(e);
        }

    }

    @Then("user registration is successful")
    public void user_registration_is_successful() {
        System.out.println("user registration is successful");
    }

}

```

Runner:

```

package testRunners;

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

@RunWith(Cucumber.class)

@CucumberOptions( plugin= {"pretty", "json:target/MyReports/report.json",
                        "junit:target/MyReports/report.xml"},
features = {"src/test/resources/AppFeatures/UserRegistration.feature" },
glue = { "StepDefinitions"},
monochrome=false,
dryRun =false
)

public class UserRegistrationTest {

}

```