**1) What is Cucumber and what are the advantages of Cucumber?**

Cucumber is a tool based on Behavior Driven Development (BDD) framework which is used to write acceptance tests for the web application. It allows automation of functional validation in easily readable and understandable format to Business Analysts, Developers, Testers, *etc. The* language that Cucumber understands is called Gherkin. It is written in a Ruby programming language.

**Advantages of Cucumber**

* You can involve business stakeholders who cannot code
* End user experience is priority
* High code reuse

2. **Explain What Is BDD (Behavior Driven Development)?**

BDD or Behavior-driven development is a process of developing software based on TDD (Test Driven Development) which focuses on the behavioral specification of software units.

**Explain the parts/keywords of feature file?**

A simple feature file consists of the following keywords/parts –  
**Feature-** Name of the feature under test.  
**Description (optional) -** Describe about feature under test.  
**Scenario-** What is the test scenario.  
**Given-** Prerequisite before the test steps get executed.  
**When-** Specific condition which should match in order to execute the next step.  
**Then-** What should happen if the condition mentioned in WHEN is satisfied.

3. **What are the 2 files required to execute a Cucumber test scenario?**

The 2 files required to execute a Cucumber test scenario are

* Features
* Step Definition

**4. What is feature file in Cucumber? What does feature file consist of?**

Feature file in cucumber consist of parameters or conditions required for executing code, they are

* Feature
* Scenario
* Scenario Outline
* Given
* When
* Then

5. **Explain what is Scenario Outline in feature file?**

**Scenario Outline**:  Same scenario can be executed for multiple sets of data using scenario outline.  The data is provided by a tabular structure separated by (I   I).

**6. Give an example of behavior driven test in plain text?**

* **Feature: Let sat we want to** Visit **Credit**  page in AB-CBank.com
* **Scenario :**Visit ABCBank.com
* **Given:**  I am on ABCBank.com
* **When:**I click on **Credit**   page
* **Then:**I should see ABC-Bank page

**7. Cucumber Execution Starts from Where?**

Cucumber execution will starts from support. In support first it will load the env.rb file then it will load hooks.rb and then it will start execute feature file scenario steps.

### 8. What Is Support, Env.rb And Hooks.rb ?

Support is a foder where we can setup cucumber related support.

Env.rb file will be used to load the required libraries for cucumber scenario execution

hooks.rb we will add hooks like before, after, beforeStep and afterStep hooks.

### 9. ****What Is Profile In Cucumber?****

We can create Cucumber profiles to run specific features and step definitions

We can use following command to execute a cucumber profile

**cucumber features -p <profile\_name>**

**Ex:** cucumber features -p regression

### 10. ****What Are Before, After, Before-step And After-step Hooks?****

**Before:** execute before the feature file execution

**After:** executes after the feature file execution

**Before-Step:** executes before the each step execution

**After-Step:** executes after the each step execution

### 11. ****What Are Cucumber Tags? Why We Use The Tags?****

Cucumber tags used to filter the scenarios. We can tag the scenarios and we can execute the scenarios based on tags, we can add tags to scenarios with @ We can use following command to execute a cucumber tagged scenarios.

**Cucumber features -t @<tag\_name>**

**Ex:**cucumber features -t @test

12. **What are the difference between Jbehave and Cucumber?**

Although Cucumber and Jbehave are meant for the same purpose, acceptance tests are completely different frameworks

* Jbehave is Java based and Cucumber is Ruby based
* Jbehave are based on stories while Cucumber is based on features

13. **What is the language used for expressing scenario in feature file?**

Gherkin language is used to express scenario in feature files and ruby files containing unobtrusive automation for the steps in scenarios

**14. Explain what are regular expressions?**

A regular expression is a pattern describing a certain amount of text.  The most basic regular expression consists of a single literal character

15. **What software do you need to run a Cucumber Web Test?**

* Ruby and its Development Kit
* Cucumber
* IDE like ActiveState
* Watir ( To simulate browser)
* Ansicon and rspec (if required)

**What Is Step Definition In Cucumber?**

A step definition is the actual code implementation of the feature mentioned in the feature file.

**What is cucumber dry run?**

Cucumber dry run is used to compile cucumber feature files and step Definitions. If there are any compilation errors it will show when we use dry run  
Ex: **Cucumber features –dry-run**

### ****How to Generate Cucumber Execution Reports?****

We can use the following command to generate html reports.

–Format html –out report.html –format pretty.

### ****How to Run a Particular Scenario from a Feature File?****

We can run particular scenario from a feature file by giving the scenario line number

**Ex:** cucumber features/test.feature:21

**Explain What Is Test Harness?**

A test harness for cucumber and rspec allows for separating responsibility between setting up the context and interacting with the browser and cleaning up the step definition files.

Explain When To Use Rspec And When To Use Cucumber?

Rspec is used for Unit Testing.

Cucumber is used behaviour driven development. Cucumber can be used for System and Integration Tests.

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**What Is Bdd Framework? What Is The Benefit Of Bdd In Selenium?**

BDD is becoming widely accepted practice in agile software development, and Cucumber-JVM is a mainstream tool used to implement this practice in Java. Cucumber-JVM is based on Cucumber framework, widely used in Ruby on Rails world as well as in Java and .Net.

Cucumber-JVM allows developers, QA, and non-technical or business participants to write features and scenarios in a plain text file using Gherkin language with minimal restrictions about grammar in a typical Given, When, and Then structure.

The feature file is then supported by a step definition file, which implements automated steps to execute the scenarios written in a feature file. Apart from testing APIs with Cucumber-JVM, we can also test UI level tests by combining Selenium WebDriver.

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