1. **What is Cucumber? BDD vs TDD? Why did you decide to start using Cucumber? What is the difference between Cucumber and TestNG?** 
   * Cucumber is a testing tools that support BDD (Behavior Data Development)
   * **one of the most outstanding features of tools is the ability to access plain text**

**functional description (written in the language called Gherkin)**

**BDD exactly means explaining the customer requirement in the plain text paper. In BDD users (Business analysts, product owners) first write scenarios or acceptance tests that describe the behavior of the system from the customer perspective for review and sign by a product owner before developers write their codes.**

* + BDD (Behavior Driven Development) is designed to make better understanding
  + of test cases by all the team like Tester, developer, business analyst, stack holders and etc. which TDD is based on more programming language and it’s not understandable for all team members.
  + The most reason of choosing Cucumber is BDD which is help to understand all the requirement in plain English language.

**difference between Cucumber and TestNG?**

**TestNG** is testing framework where you specify test classes that needs to be executed.

**Cucumber** is to run acceptance tests written in Behavior data development style. Gherkin is the language that Cucumber uses to define test cases.

# How did you use cucumber in your framework?

* Main concept of cucumber is the feature file and step definitions. Which is the feature file is written in Gherkin language and based on the Feature file steps the methods will create in step definition packages. This package will contain all the classes of all step definitions. Step definition classes are actually we write our codes for automation testing.

# Give an example of behavior driven test in plain text?

* Bahavior Driver test example (most likely called Feature file)
  + Feature: Specifying the feature name.
  + Scenario: explain the acceptance criteria
  + Given is precondition step
  + When is the action that will happen
  + Then is post condition mean is the expected or actual result.

# What are the two files required to run a cucumber test?

* Feature File.
* Step Definitions.

1. **What is a feature file? What is the extension? What is there is feature file? What are the keywords used in feature file?**
   * The Feature file is the file that we written our scenarios base on BDD approach.
   * The extension is .feature
   * all the scenarios step by step in for the specific feature.
   * The keywors are Feature, Scenario, scenario Outline, Background, Given, When, Then, And, Example

# What is the language used to write a scenario in feature file? What is the main purpose?

* The language is Gherkin. Main purpose of writing the feature file is to make is understandable for everyone.

# Is it mandatory to use Given, When, Then keywords while writing scenario? What is the difference?

* It’s not mandatory to use Given, When, Then, And in a scenario.
* There is possibility to use \* sign but the difference is it’s not understandable for everyone.

# Name any 2 testing framework that can be integrated with Cucumber?

* TestNG
* Junit

# Name any two build management tools that can be integrated with Cucumber?

* Maven
* Gradle

# Explain Cucumber Tags? How to run only specific scenarios? How to run multiple scenarios with tags? How to exclude tagged scenarios?

* We can specify tag in feature file for scenario of feature.
* To run specific scenario we specify the tag in feature file and in runner class.
* To run multiple scenario we can specify our test runner tags by multiple name
* By using ~ before a tag name it will exclude the execution. In runner class

# What is the use of keyword "background" in feature file?

* If there is steps that will execute for each scenario (precondition mostly) in a feature file we use background. Keyword.
* It is a step or series of steps which are common to all the tests in the feature file.

# Explain Cucumber Hooks? What’s Before/After step hook?

* Basically, hooks are a step that will run before and after each scenario.
* Before and After ate the Junit annotation to specify the methods that will run before and after each scenario.

1. **What is @CucumberOptions in test runner? List the properties of @CucumberOptions**
   * the cucumberOptions are properties use to configure the test execution.
   * Feature, glue, dryrun, plugin, monochrome, tags.
   * **Features**
   * Path to the Feature Files
   * **Glue**
   * Path to the Step Definitions
   * **tags**
   * instruct: What tags in feature
   * files should be executed
   * **Monochrome=true**
   * Display console output in a readable format/more organized.
   * **Plugin**
   * What all report formats to use
   * **Strict=true**
   * It will fail execution if there are any undefined or pending steps
   * **dryRun= true/**
   * If there is anything is missing any steps in step definition it give you what is missing and still passes your test case.
   * **We ususally have dryRun on false unless if we want to check if our test case is missing anything or not.**
2. **What is the difference between scenario and scenario outline?**
   * The main deferent is Scenario outline is to implement the Data Driven Framework in cucumber. With using Example keyword.
   * Same scenario can be executed for multiple set of data.

# How can we achieve data driven testing in Cucumber? What is DataTable in Cucumber? DataTable vs Scenario Outline?

* To achieve data driven in cucumber we can use Example keyword or with DataTable.
* DataTable in cucumber will specify for a specific step. DataTable will return list of Maps.
* The difference is Scenario Outline we use the Example Keyword and it’s effect for whole scenario steps. We don’t need to implement codes in step definition which cucumber will pass the test data from feature file to step definition.
* DataTable we don’t need to use Outline keyword with scenario and it’ effect only the step that data table specified. And we have to implement codes in order to get data from a datatable.

Example keybord. When we have a set values

# When in Cucumber some test scenarios fail and now you want to run failed ones, how would you do it?

There are multiple steps for rerun a failed test case.

* First, we have to configure our runner class and add rerun to the plugin.
* This plugin we return a rerun.txt file in our target folder (this folder could be anything.)
* We have to create another runner class for only the failed test cases in order to rerun.
* Specify the path of rerun.txt file in feature properties.
* And run

We specify rerun tag in cucumber options

After running a test thro test runner. If there is any test fails it create a file automat

We create another test runner class with different name

We specify the path of txt file into feature option in our neew test run

1. What is the step definition?

It’s the actual code that is implemented from feature file.

Can one scenario have multupe tags

What is sanity testing?

Smoke= is involved major functionality /

Should be 10-20 min to execute

Whenever there is any changes we run smoke test

Regresion = run all of the tests from the beginning till end of the project.

Functional Testing=

The tests that are related to functionality of an application. Clicking

Smoke Testing=

Major functionality of our application. when a bug fixed, changes happened, new build happened . We can run it everyday and its for small amount of tests

Regression Testing=

We do regression when we already have our test cases written and for example a new requirement added and we want to rerun our test cases from the beginning and to the end. In regression we basically rerun the existing testing to see if the changes effect on it or not. We don’t do it everyday.

Sanity Testing=

When our test cases are a lot and we want to test only some test cases we prioritize based on the high priority and name it sanity.

Positive testing=

When our test data is valid it runs positive testing. For example: when we put the valid credentials in log in testing is positive testing. Where as when we put the invalid data it will be Negative Testing

Blackbox Testing= UI testing

When we checked the functionality without checking the details for example: when you want to log in as long as you put username, password, and click and it works.

HardAssert vs SoftAssert=

Assertion basically verify the result. They can fail or pass the execution

Hard Assert we don’t need to create an object of it. And basically if it fails at anytime of your testcases, it stop excetutiong. Whereas softAssert we have to create an object in order to use it and if it fails it still continue the test case.

What is visibility of element?

It’s a page load.

have i worked with web services?

Yes,

With helping of API. That made conncetion of between two web browsers

**how do I automate my SQL queries?**

SQL queries is a same as back-end testing. And I haven’t done that.

But I used SQL when I used Manual Testing

**What is Maps?**

Map is a object that use key and value and it cant be duplicate.

In my framework I have use HashMap in my feature file using data table

what is background Keyword?

What is Scenario Outline and benefits of it?

What command is used to stop java execution?

We can use return to stop the execution in methods

We can use break to stop execution in conditional statement.

System.Exit statement

What method is used to get the url in the browser?

GetcurrentURL

What method is used to separate comma delimited values?

Split method from String Class

what method is used to determine if a string is found inside of a string?

Contain method

what is the command for hard wait in java?

Thread.sleep();

what is method to change from one window to another in selenium?

Get.windowHandle();

How many times do you conduct your tests in Jenkins everyday?

It depends on project/ once the end . smoke testing

How do you handle exceptions?

With using try and catch block

If you have a million numbers, then how do you find the second highest number?

What is static keyword used for?

To make the variable accessible without creating a method.

What is web services used for?

There are the services that are available in the cloud/Internet, and we can use them.

I have been asked how to convert integer into a string. How to convert string to integer?

Also asked me what are the logical expression for AND and OR in java?

They both are for comparison.

When we use AND both statement has to be either true or false

But when we use OR if one statement is fasle or true still ok

Have you done any database testing?

Yes

What is in your database?

Oracle SQL

Who decides if a test is enough?

Basically you decide. If you cover all the requirements that means you have a good test case.

Why we use parameters?

Its reusable,

How you use @dataProvider annotation?

In test NG to insert data

How does Soft Assert and Hard Assert different?

Software assert throw exception but codes executes at last

but in Hard assert it stops execution

What is feature file ? Scenario outline and steps definition?

It is a file where we write our codes in plain English language and we use feature keywords

Scenario outline, we can have multiple data where as Scenario we can have only one data and that’s data table.

Different types of waits?

Implicit , explicit.

What is fluent wait?

Each FluentWait instance defines the maximum amount of time to wait for a condition, as well as the frequency with which to check the condition. Furthermore, the user may configure the wait to ignore specific types of exceptions whilst waiting, such as NoSuchElementExceptions when searching for an element on the page.

Can we concatenate in String? What do you prefer to use between String and String Buffer? What is regular expression?

What is difference between HashMap and HashTree (edited)

In hashmap order doest matter

HashTree order is important

Why we need maven?

Because we have to make sure all the team use the same version of library. So we use Maven and Pom.xml

How do u connect Selenium and Cucumber?

Step Definition

What is static binding and dynamic binding?

Static binding- basically it’s a complie polymorphism or overloading

Dynamic binding- RunTime polymorphism and overriding

What is dataProvider?

Is a testing annotation to approach data driven for test cases.

How do we take user input?

Scanner Class

How do we take output?

System.out.println();

How do we identity a prime number?

By diving it by 2 and when remaining is 1

How do we see what scenario is running on our console using a specific cucumber option?

Using pretty

what challenged have I faced using with API?

When I didn’t get a right respond.

Infinite loop, what is loop, what kind of loop would you use to loop from 1to 10 , loop from 10 to 1?

For loop/advanced loop/while lop/ do while

Loop is a set of code that repididly excetures

POM and DOM what is it?

Page Object Model

Document Object Model

SQL

Selenium Grid?

Is part of Selenium that run the execution on different machines against different browsers in parallel.

Integrated Continues?

It is a development practice where developers integrate codes into the shared repository several times a day.

Continuous deployment testing?

It is similar to integrated continues. Basically keep your application deploydable or even run automatically at any time.

How to solve the conflict in Git?

1. we can do it through github- if the conflict is not complex.
2. Eclipse
3. Through Terminal and Git tools

By using Git diff(it shows the diff btw current and master branch) and Git merge tools

We always push to our own branch and then master branch because we don’t want to ruin the master branch.

How do you update your record?

By using update statement.

Difference btw user story and epic