1. Difference between BDD and TDD

TDD Framework	BDD Framework
TDD is a development technique that focuses more on the implementation of a feature	BDD is a development technique that focuses on the system's behavior
It mainly focus on Unit test	It mainly focus on understanding requirements

2. Explain cucumber?
   - Cucumber is a tool that is based on Behavior Driven Development (BDD) methodology.
   - To run functional tests written in a plain text Cucumber tool is used. It is written in a Ruby programming language.
3. What is meant by feature files

   A feature file must provide a high-level description of an Application Under Test (AUT). The first line of the feature file must start with the keyword 'Feature' followed by the description of the application under test.

   A feature file may include multiple scenarios within the same file. A feature file has the extension .feature.

4. What are the various keywords that are used in Cucumber for writing a scenario?

   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.

- **AND** keyword is used to show conjunction between two conditions. **AND** can be used with any other keywords like **GIVEN, WHEN** and **THEN**.

5. What is the purpose of a Scenario Outline in Cucumber?
   Scenario outline is a way of parameterization of scenarios. This is ideally used when the same scenario needs to be executed for multiple sets of data, however, the test steps remain the same. Scenario Outline must be followed by the keyword 'Examples', which specify the set of values for each parameter.

6. What is the purpose of the Step Definition file in Cucumber?

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

7. Provide an example of a feature file using the Cucumber framework.

   Feature: Login to the application under test.
   Scenario: Login to the application.
   - Open the Chrome browser and launch the application.
   - **When** the user enters the username onto the UserName field.
   - **And** User enters the password into the Password field.
   - **When** the user clicks on the Login button.
   - **Then** validate if the user login is successful.

8. Provide an example of a Scenario Outline using the Cucumber framework.

   Feature: Scenario Outline
   Scenario Outline :Login functionality for a social networking site.

   Given user navigates to Facebook

   When I enter Username as "<username>" and Password as "<password>"

   Then login should be unsuccessful

   Examples:

username	password
username1	password1
username2	password2

9. What is the use of Background keyword in Cucumber?

Background keyword is used to group multiple given statements into a single group. This is generally used when the same set of given statements are repeated in each scenario of the feature file.

10. What symbol is used for parameterization in Cucumber?

Pipe symbol (|) is used to specify one or more parameter values in a feature file.

11. What is the purpose of the Cucumber Options tag?

Cucumber Options tag is used to provide a link between the feature files and step definition files. Each step of the feature file is mapped to a corresponding method on the step definition file.
Syntax:

   @CucumberOptions(features="Features",glue={"StepDefinition"})

12. What is the meaning of the Test Runner class in Cucumber?

TestRunner class is used to provide the link between the feature file and the step definition file. The next question provides a sample representation of how the TestRunner class will look like. A TestRunner class is generally an empty class with no class definition.

13. Explain the purpose of keywords that are used for writing a scenario in Cucumber.

- **"Given"** keyword is used to specify a precondition for the scenario.
- **"When"** keyword is used to specify an operation to be performed.
- **"Then"** keyword is used to specify the expected result of a performed action.
- **"And"** keyword is used to join one or more statements together into a single statement.

14. How can Cucumber be integrated with Selenium WebDriver?

Cucumber can be integrated with the Selenium Webdriver by downloading the necessary dependency.
Cucumber – java -4.2.0
Cucumber -Junit -4.2.0

Cucumber Plugin is the plugin that is used to integrate Eclipse with Cucumber.

15. What is the starting point of execution for feature files?

The starting point of execution of feature must be from the TestRunner class.