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## Angular Testing Interview Questions

### Q1. What is angular unit testing?

**Unit testing** is a type of software testing where we test individual components of an application. In AngularJS Unit testing is performed using Jasmine and Karma. Jasmine is the testing framework used for writing the test and Karma is used run tests. We can also use TestBed and async to make testing asynchronous code, components, directives or services easier.

### Q2. What is Karma and Jasmine?

**Karma:** Karma is a tool of running tests on browsers it lets us spawn browsers and run jasmine tests inside of them.

**Jasmine:** It is a testing framework for Javascript programming language that supports Behaviour Driven Development (BDD) software development practice.

### Q3. How to install Karma using NPM?

After installing Node.js, we can install the **Karma test runner** by running `npm install karma --save-dev` command.

### Q4. How to define a Spec in Jasmine?

**spec** in Jasmine represents a test case inside the test suite. We can define spec by calling the global Jasmine function **it**, which, like **describe** takes a string and a function.

#### Example

```
describe("Suite Name", function() {
  it("test spec", function() {
    expect( expression ).toEqual(true);
  });
});
```

## Q5. Enlist major matchers available in Jasmine?

**toBeArray()**, **toBeArrayOfBooleans()**, **toBeFalse()**, **toBeCalculable()**, **toBeOddNumber()**, **toBeEmptyObject()**, **any.after(date)** are few built in matchers in Jasmine. For complete list of Jasmine Matchers please visit [Github Jasmine Matchers List](#)

## Q6. What is a headless browser?

A **headless browser**, a browser without any kind of graphical user interface (GUI) provides computerized control of a web page in an environment alike to popular web browsers but is performed through a command-line interface or managing network communication. They are especially useful for examining web pages as they can render and understand HTML the very way a browser would, including styling components such as page layout, color, font selection and execution of JavaScript and AJAX which are usually not possible when using other testing methods.

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