**Angular Basics**

1. **What is Angular?**

Angular is a JavaScript framework which allows us to develop client-side Single Page Web Applications (SPA) for mobiles and desktops, by using HTML, CSS and programming language like JavaScript or TypeScript.

1. **What is a Framework?**

A framework is a platform to build the software applications, A framework can have pre-defined classes and functions that can be re-used to add several functionalities, which otherwise we have to write from scratch by our own.

1. **What is a Single Page Application (SPA)?**

A single page application is a web application which loads on to the browser. When we navigate around, only the content of the html page changes. The page itself never changes.

**Angular Installation**

1. **What is the command to check the node version?**

Command: node -v

1. **What is the command to check the npm version?**

Command: npm -v

1. **What is Angular CLI?**

Angular CLI is a command line interface which we use to create new angular project or generate some boiler plate code as well as create some deployable packages.

1. **What is the command to install an angular application in our machine?**

Command: npm i -g @angular/cli@latest

1. **What is the command to check the angular version in our machine?**

Command: ng version

1. **What is the command to create a new angular project?**

Command: ng new <project\_name>

1. **What is the command to run the angular project?**

Command: ng serve

1. **What is the default port to run the angular project?**

4200

1. **What are the different file bundles injected into index.html file while angular application loading onto the browser?**

**Styles.js ------ all the styles of the Angular application.**

**Runtime.js ------- is webpack runtime file.**

**Vendor.js --------- info related to all third party libraries which are supported to run load and run the angular application.**

**Polyfils.js -------------- contains all the browser compatibilities.**

**Main.js ----------------- the main angular application file.**

**files & folder structure**

1. **Node\_modules:**

All the third party dependency libraries are stored in this folder, which are used to design and run our angular application.

1. **Package.json:**

The package.json file contains some scripts to maintain the angular application along with dependencies and dev dependencies.

1. **What is the difference between dependencies and dev dependencies?**

The dependencies section contains the dependency libraries the angular application directly depends on them.

The dev dependencies section contains the dependency libraries which are useful at development environment.

1. **.editorconfig file:**

The .editorconfig file is used to setup the team environment or rules to follow the entire team while developing the angular application.

1. **Angular.json file:**

The angular.json file contains all the configurations of the angular project, like as main file to bootstrap the angular application, styles, etc.

1. **Package-lock.json file:**

The package-lock.json file contains all the dependencies and sub dependencies along with those versions.

This package-lock.json file is useful to maintain the same library versions while moving application throughout all the environmets.

1. **Typescript.json file:**

The typescript.json file contains all the typescript settings, based on these settings the typescript code compiles into JavaScript code while compilation of the angular application.

1. **Assets:**

This is the storage area where we can store all the static assets like images, docs, etc.

1. **Index.html file:**

This is the root html file which is load on to the browser while loading the angular application.

1. **Main.ts file:**

This is the starting point of the angular application; the bootstrapping process of the angular application will start from here.

1. **Styles.scss file:**

All the global styles of the angular application will define in this file.

1. **What is webpack?**

Webpack is a build tool which is used to bundle all the JavaScript files into one or more JavaScript files.