**Angular with TypeScript**

1. Why typescript and why not JavaScript?

* The latest version of Angular works with TypeScript, if we want to learn Angular. firstly, we should learn TypeScript.

1. Why is Node JS used while working in Angular?

* When we are working in the Spring Boot why did we use Maven.  
  **Maven:** To download the dependencies in our project that is backend coding. In spring boot was automatically adding.
* Now when we learn Angular, we will do front end coding like using technologies are HTML, CSS, Bootstrap, TypeScript these things. Now Front-end also need some dependencies lot of packages to be added up.
* These packages to be added up we required **Node JS packages manager (NPM).** So NPM is equal to Maven.
* To get NPM we must download Node JS.
* Use this link to download node js -> use LTS (Long time support) <https://nodejs.org/en>
* Once installed we have checked the node version using **node -v**
* When we installed node js automatically we get **npm** we check the npm version using **npm -v**

1. How to install TypeScript packages?

* Using nmp (node package manager) we install TypeScript.
* We are using the command for installing TypeScript is **npm install typescript -g**
* G -> Means global it means once we install, we can use the paths in our system.

1. What is JavaScript? And difference between TypeScript and JavaScript.

* Java is a language is used to develop backend; JavaScript were works in the front-end. TypeScript is a father of JavaScript.
* TypeScript is super set of JavaScript, because there was lot of problems in JavaScript like we don’t have an oops concepts in JavaScript, we don’t have objects and classes in JavaScript, we don’t have data types.
* This they considered a problem, and they introduced the types in TypeScript, data types in TypeScript.
* TypeScript is an easy syntax as well as JavaScript the syntax is complex.
* Disadvantage of TypeScript cannot run in the browser, but JavaScript can run.
* Whatever code I write in JSP that code is converted to servlet, same way whatever code write in typescript that converted to JavaScript. Why I am writing TypeScript because it makes development easy, but I cannot run typescript in browser.