❖ What is Angular?

Angular is used for building client-side applications , using HTML , CSS and programming languages like JavaScript or TypeScript.

Angular is not a programming language itself like JavaScript . instead it use programming language like JavaScript or TypeScript.

Angular is JavaScript framework which allows us to create **single-page-application(SAP)**

❖ What is TypeScript?

TypeScript is a syntactic super-set of JavaScript which adds static typing. This basically means that TypeScript adds syntax on top of JavaScript, allowing developers to add types.

❖ What is Single-Page-Application?

A single-page-application is a application which has only one HTML page. And the perfect example of single-page-applications are Netflix and Gmail.

In the single-page-application we can navigate around URL , and it seems like we are visiting different pages. But in the reality page never get changes only content of page changes.(It will re-write the page).

❖ Advantages of SAP:-

1. High performance and stability.

2. Code separation.

3. Fast devlopment.

Angular   **Introduction**

❖ **Difference between AngularJs and Angular:-**

AngularJS	Angular
AngularJs use JavaScript as a programming language, Which is dynamically type language.	Angular user TypeScript as a programming language, Which is statically type language.
AngularJs us MVC architecture.	Angular replace controllers with components, and components are noting but directives.
AngularJs does not provide mobile support.	Angular is supported by all popular mobile browsers.
Devlopment of large application becomes tedious in case of AngularJs	Devlopment of large application becomes easier in case of Angular as it provide better structure.

Q) Why one should learn Angular?

- ◆ Devlopment of large application becomes easy , as angular use component based architecture.

- ◆ Angular supports two-way data binding.

- ◆ Angular itself manage dependency injection for your code.

- ◆ Angular provides some out-of-the-box features like Routing (For navigating between component) and HttpClient (For cross platform communication).

Angular   **Introduction**

❖ **Environment Setup For Angular :-**

In order to develop any Angular 2 or any higher version of Angular application , the following things are required.

◆ **IDE (Visual Studio Code) :-** An integrated development environment (IDE) is a software application that helps programmers develop software code efficiently. It increases developer productivity.

You can download and install Visual Studio Code from below link.

https://code.visualstudio.com/download

◆ **NodeJS :-** NodeJS is an open-source JavaScript framework and this JavaScript Framework primarily does the following two things

1) It allows us to run the JavaScript code outside the browser.

2) The NodeJS is also acting as a central repository from where we can get any JavaScript framework using NPM (Node package manager).

➢ You can download and install NodeJS from below link.

https://nodejs.org/en/download

➢ Command to check node version:- node -v

➢ Command to check npm version:- npm -v

◆ **Angular CLI :-** Angular command-line interface (CLI) makes it easy to start with any Angular project. It comes with commands that help us create and start on our project very fast.

To work with Angular CLI, we need to have it installed on our system.

➢ Command to install Angular CLI:- npm install -g @angular/cli

➢ Command to check Angular CLI version :- ng version