What is an Angular?

It is a client side framework which meant for developing web applications,

Framework is a architecture(readymade environment) to develop applications, every framework works with a programming lang.

This framework communicate with different programming languages also like Java, dotnet, php, …..

Angular is mainly used to create SPA (Single Page Applications).

**Building Blocks of Angular: -**

Component :- Application State and Application Logic.

Metadata

Template :- HTML Page for UI

DataBinding :- UI with Data

Module

Service

Dependency Injection

Directive

Pipe

To work with Angular

1. Install Node JS
2. Install Type Script
3. Install Angular CLI package
4. To work with Angular we need, VS Code Software.

**To Install Angular CLI Package**

1. Goto command prompt
2. Use following command
   1. **npm install @angular/cli -g**
3. **To create Angular Application follow below given command**
   1. **ng new <appname>**

**once application is created, to run that application**

**ng serve**

**What is a Component?**

**It is a class represents certain section of the web application. Like LoginComponent, RegComponent, ….**

**Every Component consist of .html, .css, .ts**

**And ts file will have properties and methods.**

**To create component**

**ng g component <componentname>**

**Data Binding: -**

**It is a relation b/w component(ts) and template(html) .**

**Bindings will be done in 4 ways**

1. **interpolation Binding**
2. **Property Binding**
3. **Event Binding**
4. **Two-Way Binding**

**Interpolation Binding:-**

**It shows property value created in ts file in template.**

**{{property name}}**

**Property Binding :- it will have communication b/w template and component. i.e. send data from component to template and vice versa.**

**<tagname [attribute] = “propertyname” />**

**Built – in Directives**

**These are the angular keywords which can be used in template(html).**

**All the directives starts with “ng”**

**ngModel :- to bind property to the dom control**

**ngClass :- to access css classes**

<tag name [ngClass]=”propertyname” ….. >

**ngIf :- to check condition**

**<tagname \*ngIf=”condition” >**

**</tagname>**

**ngIf and else**

**<tagname \*ngIf=”condition”; then template1; else template2>**

**</tagname>**

**<ng-template #templatename>**

**</ng-template>**

**ngFor :- to perform loop**

**<tagname \*ngFor=”let variable of arrayname”>**

**</tagname**

**ngSwitch :- to check cases**

**<tagname [ngSwitch]=”property”>**

**<tag \*ngSwitchCase=”value”></tag>**

**<tag \*ngSwitchCase=”value”></tag>**

**…………….**

**<tag \*ngSwitchDefault></tag>**

**</tagname>**