**Component**

A component in Angular is a **class** with a **template** and **decorator**

templteHtml should give between in back tick characters

**Interpolation**

One way data-binding -> from component to view template

One way data-binding -> from view template to component

Two way data-binding -> from component to view template vice versa

<img src=’{{imagePath}}’ />

When to use

To concatenate strings

**Property binding**

<img [src]=’imagePath’ />

We can use canonical form

<span bind-src=’imagePath’ ></span>

When to Use

To set an element property to a non-string data value

Both interpolation and property binding will sanitize the malicious code by default.

**html attribute vs dom property**

Attributes are defined by html whereas properties are defined by the DOM

Attributes initialize DOM properties.

Property value can change, were as attributes value can’t

Angular binding works with properties and events, and not attributes.

**Angular attribute binding**

by default interpolation and property binding deal with Component class properties to Html element properties

All HTML element attribute may nit have properties. Ex colspan

Angular provided Attribute Binding

<th attr.colspan="**{{**colSpan**}}**">

<th [attr.colspan]="colSpan">

**Class Binding**

replace all existing CSS classes with one or more classes

[class]='classesToApply'

Add or remove single CSS class

[class.boldClass]='applyBoldClass'

Add or remove multiple CSS class. Here method should return key (cssClassname) value (true or false) pairs

[ngClass]='addClasses()'

**Style binding**

[style.fontWeight]="isBold?'bold':'normal'"

[style.font-size.px]="fontSize"

[ngStyle]="getStyles()" =🡺 where styles are key value pairs

**Event binding**

Interpolation, Property binding, Attribute Binding, Class Binding and Style Binding flow is from a component class properties to an HTML element properties.

Event binding is from an HTML element to a component.

(click)='onClick()'

on-click='onClick()'

Two-way databinding

It can be achieved by applying both property and event binding

<input type="text" [value]='name' (input)='name=$event.target.value'/>

<br/>

You Entered: {{name}}

or

<input [(ngModel)]='name'/>

<br/>

You Entered: {{name}}

For using ngModel you have to import { FormsModule } from '@angular/forms';