**Lesson07 Property binding in Angular 2**

**Notes:-**

**1-We can re write the above example, using property binding as shown below. Notice the <img> element src property is in a pair of square brackets, and the component class property is in quotes.  
<img [src]='imagePath'/>**

//we apply the interpolate by using the img field as the following

<img src="{{img}}"/>

//we apply the data binding by using the img field as the following

<img [src]="img"/>

**What is the difference between Interpolation and Property Binding?**

**1-Interpolation is a special syntax that Angular converts into a property binding.   
  
2-Interpolation is just a convenient alternative to property binding.**

**Cases of Prefer using of Interpolation instead of Property Binding?**

**1-In this case of using src of image , we prefer using Interpolation**

**<img src='http://www.pragimtech.com/{{imagePath}}' />**

**2-When setting an element property to a non-string data value, you must use property binding. In the following example, we are disabling a button by binding to the boolean property isDisabled.**

**<button [disabled]='isDisabled'>Click me</button>**

**In the Html page we see that we apply the Interpolating and Data Binding based on the case require for the best using**

<img src="{{img}}"/>

<img [src]="img"/>

{{10+20+30}}

<h1>{{firstName ? firstName: "No First Name"}}</h1>

<table>

<tr>

<td>First Name</td>

<td>{{firstName}}</td>

</tr>

<tr>

<td>Last Name</td>

<td>{{lastName}}</td>

</tr>

<tr>

<td>Full Name</td>

<td>{{getFirstName()}}</td>

</tr>

<tr>

<td>Gender</td>

<td>{{gender}}</td>

</tr>

<tr>

<td>Age</td>

<td>{{age}}</td>

</tr>

</table>

//we see that we apply the Data Binding because it’s the best for this case

<button [disabled]="!State" (click)="Activate(State)">{{ButtonText}}</button>

**On the Code Behind , we see that we apply the property and Data Binding**

import { Component, OnInit } from '@angular/core';

@Component({

selector: 'app-employee',

templateUrl: './employee.component.html',

styleUrls:['./employee.component.css']

})

export class EmployeeComponent implements OnInit {

firstName:string;

lastName:string;

gender:string;

age:number;

img:string;

State:boolean;

ButtonText:string;

constructor() {

this.firstName = 'Tom';

this.lastName = 'Hopkins';

this.gender = 'Male';

this.age = 20;

this.img = '../../favicon.ico';

this.State = false;

this.ButtonText = "DisActivate";}

ngOnInit() {}

getFirstName():string

{

return this.firstName + " "+this.lastName;

}

Activate(State)

{

debugger;

if(!State)

{

this.ButtonText = "DisActivate"

this.State = !State;

}

else

{

this.ButtonText = "Activate"

this.State = !State;

}}}