**Creating & Running first Angular 4 App:**

* ng new MyFirstAngular4App
* cd MyFirstAngular4App
* ng serve
* code . (dot)
* go to app.component.ts & modify title to your name.
* go to app.component.html & modify <h1> & erase the word ‘to’.

**Creating a component:**

* ng g[enerate] c[omponent] newcomponent
* In app.component.html type <app-newcomponent></app-newcomponent>
* newcomponent.component.html add following lines:  
  <p>{{newcomponent}}</p>
* In newcomponent.component.ts add following line under export class …  
  newcomponent = “Entered in new component created”;
* View the web page.

**Data Binding:**

* In app.component.ts add following lines:  
    
  months = ["January", "Feburary", "March", "April", "May", "June", "July", "August", "September", "October", "November", "December"];
* In app.component.html add following code:  
  <div> Months :

<select>

<option \*ngFor = "let i of months">   
 {{i}}  
</option>

</select>

</div>

* View the web page.
* In app.component.ts add following line:  
  isavailable = true;
* In app.component.html add following code:  
  <div>

<span \*ngIf="isavailable; then condition1 else condition2">Condition is valid.</span>

<ng-template #condition1>Condition is valid</ng-template>

<ng-template #condition2>Condition is invalid</ng-template>

</div>

**Event Binding:**

* In **app.component.html**, add following code:  
  <button (click)="myClickFunction($event)">

Click Me

</button>

* In **app.component.ts**, add following lines:  
  myClickFunction(event) {

//just added console.log which will display the event details in browser on click of the button.

alert("Button is clicked");

console.log(event);

}

* In app.component.html, add following lines:

<div> Months :

<select (change) = "changemonths($event)">

<option \*ngFor = "let i of months">{{i}}</option>

</select>

</div>

* In app.component.ts, add following lines:

changemonths(event) {

alert("Changed month from the Dropdown");

}

**Creating custom directives:**

* Type  
  ng g directive changeText  
  at command prompt.
* In app.component.html, add following code:  
  <div style="text-align:center">

<span changeText >Welcome to {{title}}.</span>

</div>

* Your change-text.directive.ts, should look like follows:  
  import { Directive, ElementRef} from '@angular/core';

@Directive({

selector: '[changeText]'

})

export class ChangeTextDirective {

constructor(Element: ElementRef) {

console.log(Element);

Element.nativeElement.innerText="Text is changed by changeText Directive. ";

}

}