Container and Nested Component

Create Component: **employeeCount**

**employeeCount**.Component.ts

export class EmployeeCountComponent implements OnInit {

**all:number=10;**

**male:number=5;**

**female:number=5;**

**employeeCount**.Component.css

.radioClass

{

color:#369;

font-family: Arial, Helvetica, sans-serif;

font-size: large;

}

**employeeCount**.Component.html

<span class="radioClass">Show: </span>

<input type="radio" name="options"/>

<span class="radioClass">{{ "All (" + all +")" }}</span>

<input type="radio" name="options"/>

<span class="radioClass">{{ "Male (" + male +")" }}</span>

<input type="radio" name="options"/>

<span class="radioClass">{{ "Female (" + female +")" }}</span>

**Employee-list.component.html**

**<app-employee-count></app-employee-count>**

**<br><br>**

<table class="table table-bordered table-hover"> ….</table>

**Run : Value Undefined**

**employeeCount**.Component.ts

**(Concept: Input Properties)**

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

export class EmployeeCountComponent implements OnInit {

**@Input() all:number;**

**@Input() male:number;**

**@Input() female:number;**

**Run : Value Found**

**Employee-list.component.ts**

getTotalEmployeesCount():number{

return this.employee.length;

}

getTotalMaleEmployeesCount():number{

return this.employee.filter(e=>e.Gender==="Male").length;

}

getTotalFemaleEmployeesCount():number{

return this.employee.filter(e=>e.Gender==="Female").length;

}

**Employee-list.component.html**

<app-employee-count [all]="getTotalEmployeesCount()"

[male]="getTotalMaleEmployeesCount()"

[female]="getTotalFemaleEmployeesCount()"></app-employee-count>

**Run : You will get dynamic value but when click on radio button it will not work**

**Use : Output Property Binding**

**employeeCount**.Component.ts

import { Component, OnInit, Input, **Output ,EventEmitter** } from '@angular/core';

**selectedRadioButtonValue:string='All';**

**@Output()**

**countRadioButtonSelectionChanged:EventEmitter<string>=new EventEmitter<string>();**

onRadioButtonSelectionChange(){

this.countRadioButtonSelectionChanged.emit(this.selectedRadioButtonValue);

}

**employeeCount**.Component.html

<input type="radio" name="options" **value="All"**

**[(ngModel)]="selectedRadioButtonValue"**

**(change)="onRadioButtonSelectionChange()"/>**

<span class="radioClass">{{ "All (" + all +") " }}</span>

<input type="radio" name="options**" value="Male"**

**[(ngModel)]="selectedRadioButtonValue"**

**(change)="onRadioButtonSelectionChange()"/>**

<span class="radioClass">{{ "Male (" + male +") " }}</span>

<input type="radio" name="options" **value="Female"**

**[(ngModel)]="selectedRadioButtonValue"**

**(change)="onRadioButtonSelectionChange()"/>**

<span class="radioClass">{{ "Female (" + female +")" }}</span>

**employeeCount**.Component.ts

onRadioButtonSelectionChange(){

this.countRadioButtonSelectionChanged.emit(this.selectedRadioButtonValue);

**console.log(this.selectedRadioButtonValue);**

}

**Run : See in console Value Change**

**Employee-list.component.ts**

selectedEmployeeCountRadioButton:string='All';

onEmployeeCountRadioButtonChange(selectedRadioButtonValue:string):void{

this.selectedEmployeeCountRadioButton=selectedRadioButtonValue;

}

**Employee-list.component.html**

<app-employee-count [all]="getTotalEmployeesCount()"

[male]="getTotalMaleEmployeesCount()"

[female]="getTotalFemaleEmployeesCount()"

**(onEmployeeCountRadioButtonChange)="onRadioButtonSelectionChange($event)"**></app-employee-count>

<br><br>

<tbody>

<tr \*ngFor="let emp of employee"

**\*ngIf="selectedEmployeeCountRadioButton=='All' || selectedEmployeeCountRadioButton==employee.Gender"**>

**But no multiple directive in single tag**

**<ng-container \*ngFor="let emp of employee">**

<tr \*ngIf="selectedEmployeeCountRadioButton=='All' || selectedEmployeeCountRadioButton==emp.Gender"

scope="row">

<td>{{emp.eCode}}</td>

<td>{{emp.Name }}</td>

<td>{{emp.Gender}}</td>

<td>{{emp.Salary}}</td>

<td>{{emp.DateOfBirth}}</td>

</tr>

**</ng-container>**

**Employee-list.component.ts**

<app-employee-count [all]="getTotalEmployeesCount()"

[male]="getTotalMaleEmployeesCount()"

[female]="getTotalFemaleEmployeesCount()"

**(countRadioButtonSelectionChanged)="onEmployeeCountRadioButtonChange($event)"></**app-employee-count>

<br><br>