@ViewChild Decorator

- o View Child devorator helps in accessing properties/methods of a child component, directive, or DOM element.
- · ViewChild decorator returns the first element or directive matching the Selector from the DOM.
- of a <u>component/directive</u> class in the parent component to access the properties or methods of that component/directive.

Accessing a child component using @Viewchild

- @ViewChild allows the parent component to access the properties and methods of the child component.
- @ViewChild decorator creates an instance of a child components in the parent component in the parent component and selector of child

compo	onent should be used in the	
parent	onent should be used in the component's template.	
STEP1	- Create a Timer Component in	E
	app folder	
r	ng g c Timer	
Step 2	- Add the below code in app. modu	le.
	, <u>w</u>	1
1	•••	
	@NgModule ({ declarations: [
	declarations:	
	App Component,	
Added -	> Timer Component],	
the timer	imports: [Browser Module],	
Component.	providers: [],	
	bootstrap: [App Component]	9
	3)	

STEP3 - Add the following code to timer component. ts

```
export class TimerComponent {
constructor () { }
flag = false;
 count = 1;
 begin () {
this.flag = true;
      const start = setInterval (()=>{
    if (this.flag === false) {
   clear Interval (start);
    this.count +=1;
    3, 1000);
end() {
  this. flag = false;
```

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STE	EP-4 - Now instantiate timer componentits
	import { Timer Component } from 'timer. component.ts
	@ Component ({ 3)
	export class App Component &
create instance	@ View Child (Timer Component) timer Component: Timer Component;
Cowbener	Start Timer () {
	this. timer component . begin ();
	Stop Timer () {
	this. timer Component. end ();
	3
App	component now access the properties/ ds of Timer Component.

STEP-5 Add the following code in timer component. html

{ count }

STEP-6 Add the following code in app component. html.

<h3> Accessing component using
@ViewChild </h3>

Timer Example:

< button type = "button" (click) = "start Timere"

Begin (/button)

(button type = "button" (click) = "stop Timen")">
End (/button)

(app-timer) (/app-timer)

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ACCESSING A DIRECTIVE USING @ View Child

• @ViewChild creates an instance of a directive within a component and in this way the component can access the methods of the directive class.

STEP-1: Add the following in app Module // app. module ts

Create a directive

@ Ng Module ({ and add here.

declarations: [

App Component, Color Directive],

imports: [Browser Module],

providers: [],

bootstrap: [App Component]

3)

export class App Module { }

STEP-2: - Add the below in the color directive its file. import { Directive, ElementRef, AfterViewInit} from @angular/core; @ Directive ({ Selector: [appColor] export class Color Directive implements After View Init { constructor (private elementRef: ElementRef)

rused to execute statement {}

ngAfterViewInit() { after component fully initialized. this. element Ref. native Element. style. color = 'green'; modify (color: string) {
this.elementRef.nativeElement.style.color= color; 7

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STEP3:- Add the code in approximpment its file and access the directive methods. -@iam-frontender import { Color Directive } from /color directive; @ Component (f export class App Component { @ View Child (color Directive) color Directive! color Directive; modify Color (color: string) { this. color Directive. modify (color); color directive class can be now accessed from Applempment. @ View child devorator creates an instance of a color directive in App component.

STE4: Add the below code in	1
app. component. html	
<h3> Accessing Directive using @ViewChild </h3>	
(div appColor) Modify Color (/div)	
< b7/>	
< div>	
Modify Color:	-
<pre><input <="" name="color" pre="" type="radio"/></pre>	
(click) = "modify Color ('blue')" > Blue	
(input type= "radio" name= "color"	
(click) = "modify Color ('yellow')"/> Yellow	
(input type = "radio" name = "color"	7
(click) = "modify color ('eyan')"/> Cyan	
(/div)	
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OUTPUT:	
Accessing directive using @ViewChild.	
The text color will	
Modify Color > change based on radio	
Accessing directive using @ViewChild. The text color will Modify Color > change based on radio Modify Color: O Blue O Yellow O Cyan button.	

ACCESSING A NATIVE ELEMENT USING @View Child

OViewChild requires the template variable name to be passed as its argument and allows the component to change the appearance or behavior of a given template element.

STEP1: - // app. component. html

\(\hat{h} \rightarrow \text{Accessing Template Variable using } \)
 \(\text{QViewChild } \leq /h} \rightarrow \)
 \(\text{div} \rightarrow \)
 \(\text{Employee Name :} \)

box (input type = "text" # empName)

(br/) Employee Number:

> <input type="number" #empnumber>

(/div)

Two

Two input boxes in the template with 'empname' and 'empnumber' as their respective template reference variable.

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// app. component.ts STEP2: import {component, View Child, After View Init, ElementRef } from @ angular/wre!; export class App component implements AfterViewInit { @ViewChild ('empname') empName: ElementRef; @ViewChild ('empnumber') empNumber: ElementRef; ElementRef needs to be instantiated using @ViewChild >ngAfterViewInit() { this. empName. native Element. style. color= 'blue'; this emp Number native Element . Style . color = 'red'; , After View Init hook is used to execute Statements after a component view is fully initialized. -@iam-frontender

OUTPUT :-

Accessing Template Variable using @ View Child.

Employee Name: Sam

The text color will be blue.

Employee Number: 71348

The text color will be red.

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