**Questions & Assignments List**

**Four Decorators**

**Class decorators --- > ( @NgModule @Component @Injectable @Directive @Pipe)**

**Method decorators -----> ( @HostListener)**

**Parameter Decorators ---> ( @Inject @Self @SkipSelf @Optional @Host )**

**Property Decorators ---> ( @Input @Output @HostBinding @ContentChild @ContentChildren @ViewChild @ViewChildren )**

1 Introduction To Decorators

2 Class Decorators @NgModule

`declarations` property here put all the components defined inside the project.

`imports` let’s use functionalities of different modules in the app.

`providers` here provide the service or guard files known as dependencies, injected into the component.

`bootstrap` here gives the component name to be loaded first.

3 Class Decorators @Component

4 Property Decorators @Input

4.1 How can you pass data from parent component to child component?

Parent component declare the property eg: name；string, child component import {Input},

Then **@input** name: string = ‘’;

In html template can display it {{}}

4.2 Assignment - @Input Decorator

**<app-child [childMessage]=”displayInParent”></app-child>**

5 Property Decorators @Output

5.1 What is the purpose of the @Output decorator and EventEmitter?

OR

How can you pass data from a child component to a parent component using @Output and EventEmitter?

The @Output decorator is used for passing the data from child component to parent component - by emitting events that can be captured & responed to by parent components or other listeners.

5.2 Assignment - Using @Input and @Output Together

6 Property Decorators - Accessing Child Components With @ViewChild

6.1 What is the purpose of @ViewChild decorator?

6.2 What is the role of ngAfterViewInit() when working with @ViewChild?

7 Property Decorators - Accessing The Projected Content With @ContentChild

7.1 What is the difference between @ViewChild and @ContentChild decorators?

7.2 Which lifecycle hook is commonly used with @ContentChild and state the reason?

8 Property Decorators - Binding Properties With @HostBinding

9 Method Decorators - Binding Methods To Events With @HostListener

9.1 Assignment - Implementing Color Picker

10 Parameter Decorators