Problem 3:

Component Interaction:

In 3 ways:

1. **parent to child - sharing data via input**

Pros:

* We can pass data from parent to child component where two components have parent and child relationship.

Cons:

* It is a one way data transfer method. we can't get two way data transfer using this.
* If data changes in parent then it does not change value in child.. for that we will have to use ngOnChanges lifecycle hook method.

Solution it fits in:

* It is best to share data from parent to child in parent child relationship scenarios between the components.

1. **child to parent - sharing data via viewChild with AfterViewInit**

Pros:

* we can pass data from child to parent component where two components have parent and child relationship.

Cons:

* It is a one way data transfer method. we can't get two way data transfer using this.

Solution it fits in:

* It is best to share data from child component to parent component in parent child relationship scenarios between the components.

1. **child to parent - sharing data via output and EventEmitter**

Pros:

* we can pass data from child to parent component where two components have parent and child relationship.

Cons:

* It is a one way data transfer method. we can't get two way data transfer using this.

Solution it fits in:

* It is best to share data from child component to parent component in parent child relationship scenarios between the components.