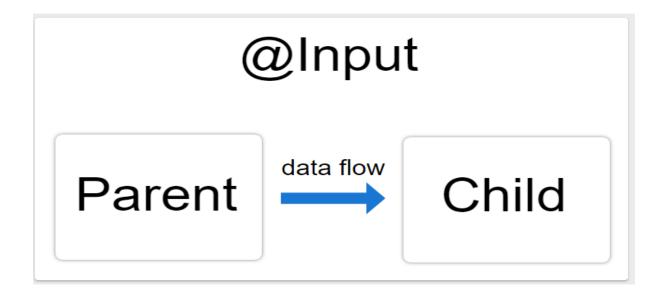
A common pattern in Angular is sharing data between a parent component and one or more child components. To implement this pattern use the @Input() and @Output() decorators.

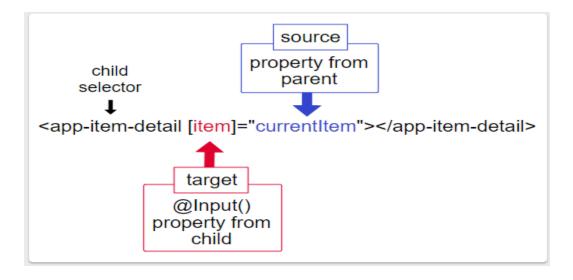
@<u>Input()</u> and @<u>Output()</u> give a child component a way to communicate with its parent component. @<u>Input()</u> lets a parent component update data in the child component. Conversely, @<u>Output()</u> lets the child send data to a parent component.

## **@Input Decorator:**

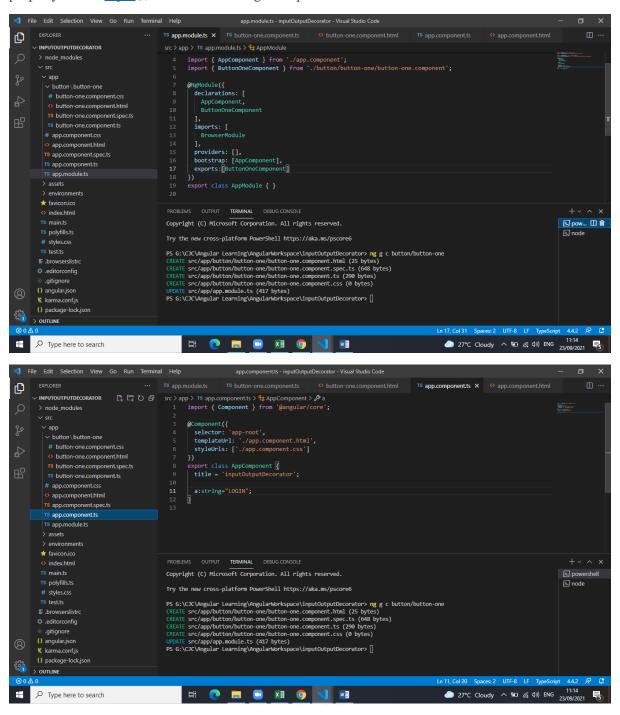
We have to declare @Input() in child component

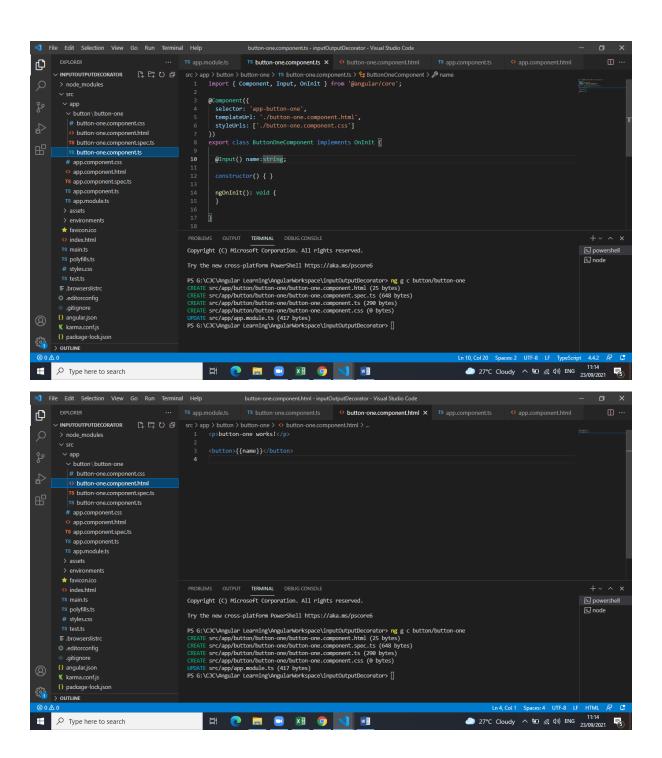
Flow: parent ts to parent html → child ts to child html

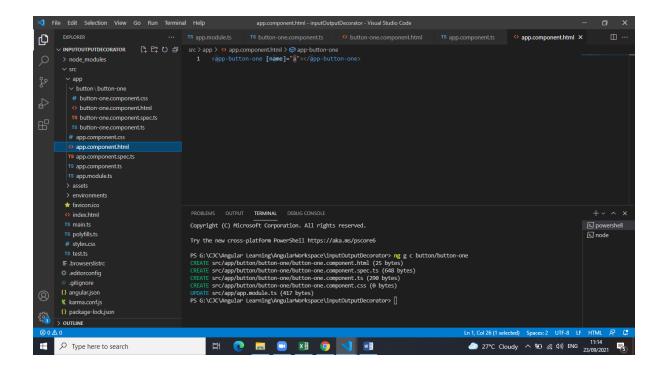




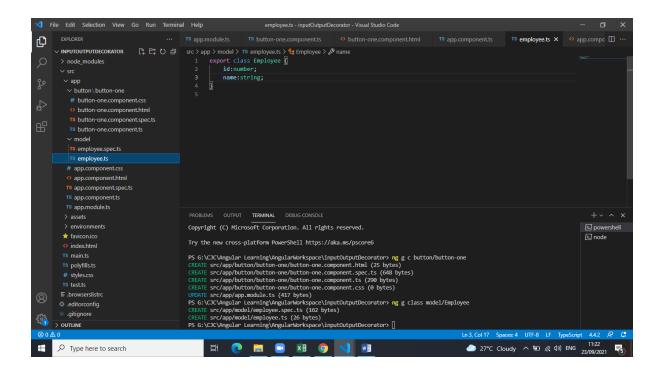
To use the @Input() decorator in a child component class, first import Input and then decorate the property with @Input(), as in the following example.

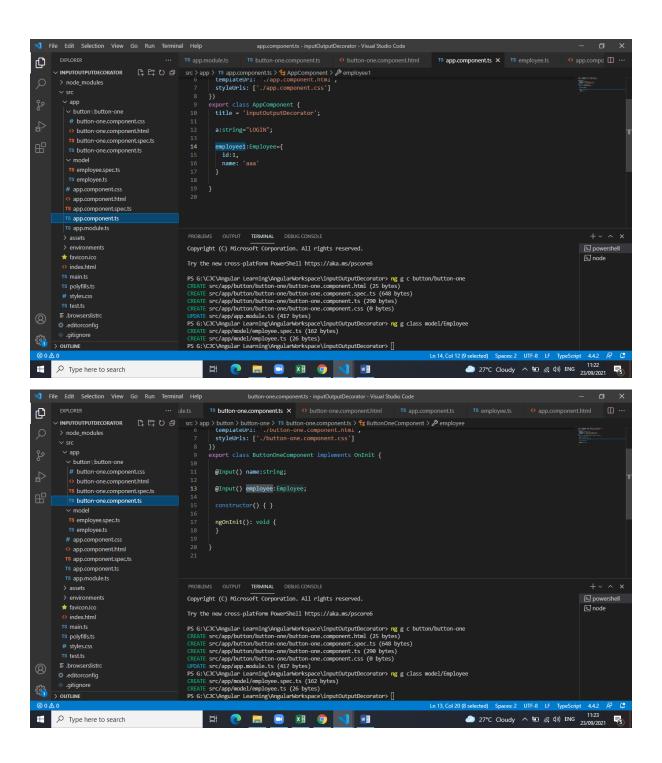


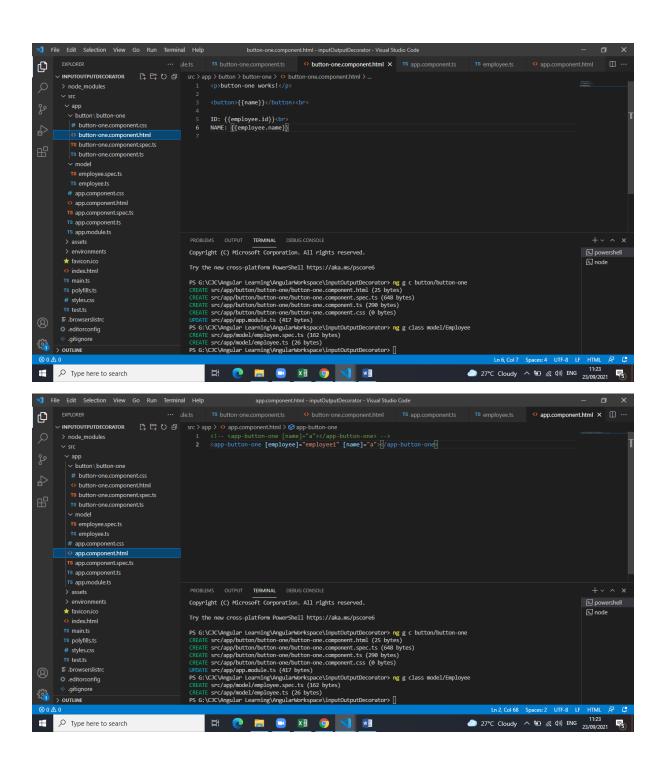


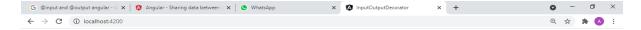


### **Sending Object with help of @Input()**









### button-one works!

**LOGIN** 

ID: 1

NAME: aaa



### Sending data to a parent component:

## **@Output() decorator:**

@Output() marks a property in a child component as a doorway through which data can travel from the child to the parent.

The child component uses the @Output() property to raise an event to notify the parent of the change. To raise an event, an @Output() must have the type of EventEmitter, which is a class in @angular/core that you use to emit custom events.

The following example shows how to set up an @Output() in a child component that pushes data from an HTML <input> to an array in the parent component.

To use @Output(), you must configure the parent and child.

1. Import Output and EventEmitter in the child component class:

import { Output, EventEmitter } from '@angular/core';

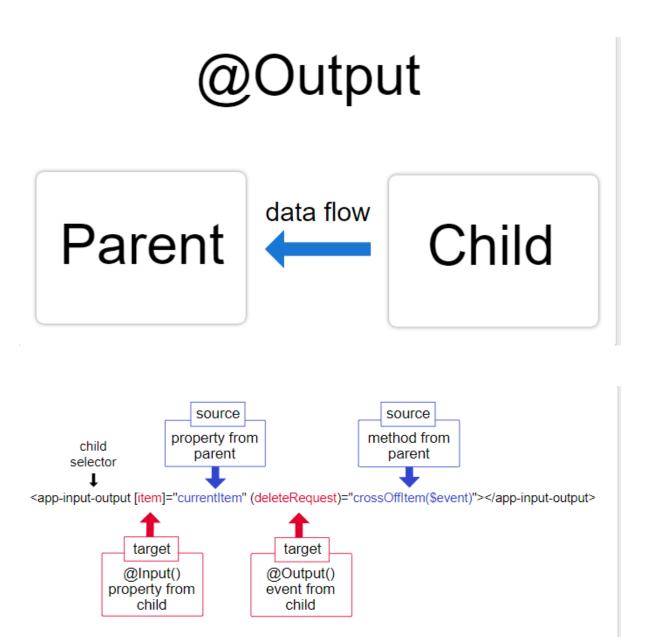
2. In the component class, decorate a property with @Output(). The following example newItemEvent @Output() has a type of EventEmitter, which means it's an event. src/app/item-output/item-output.component.ts

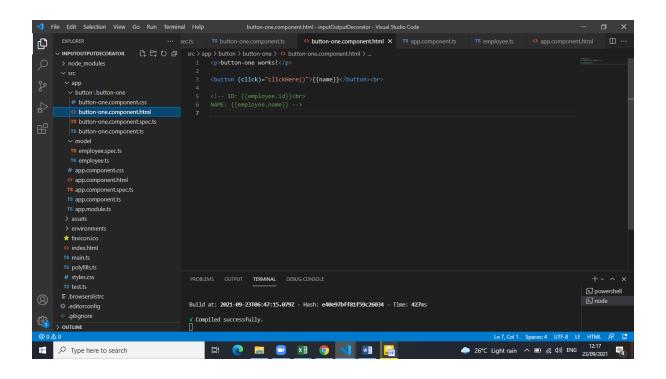
@Output() newItemEvent = new EventEmitter<string>();

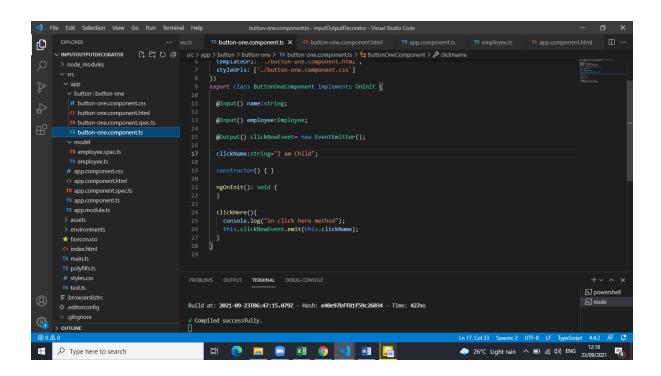
The different parts of the preceding declaration are as follows:

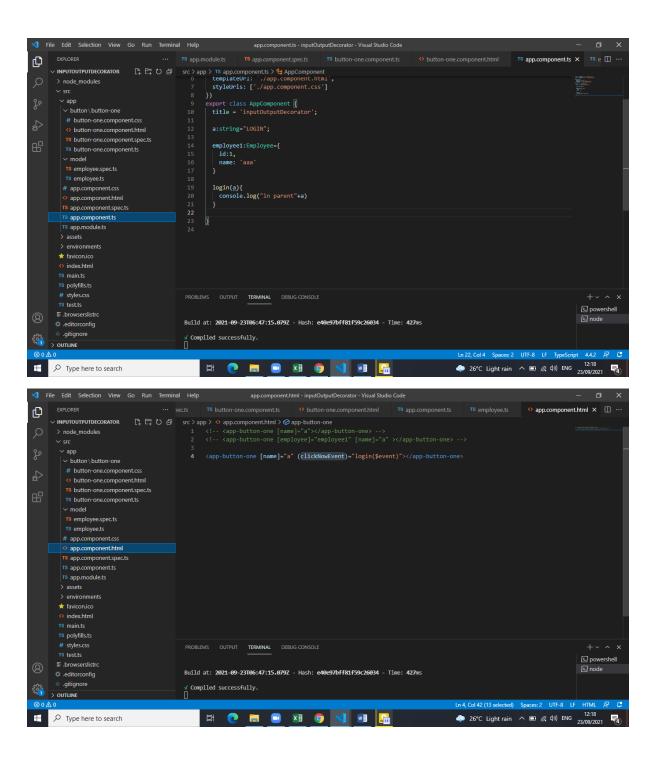
- @Output()—a decorator function marking the property as a way for data to go from the child to the parent
- o newItemEvent—the name of the @Output()
- EventEmitter<string>—the @Output()'s type

o new EventEmitter<string>()—tells Angular to create a new event emitter and that the data it emits is of type string.











# button-one works!

# **LOGIN**

