Parent & Child Component Communication

Demo1

child.component.html

<div>

<button (click)="onClick()">Click Me</button>

</div>

child.component.ts

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

export class ChildComponent implements OnInit {

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

onClick()

{

this.notify.emit("Message From Child");

}

}

parent.component.html

<div>

<h1>Parent Title</h1>

<p>{{showMessage}}</p>

<app-child (notify)="onNotifyClick($event)"></app-child>

</div>

parent.component.ts

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

export class ParentComponent implements OnInit {

showMessage="Message From Parent";

onNotifyClick(message:string)

{

this.showMessage=message;

}

}

Demo2

student.ts

export class Student {

constructor(public id: number, public fname: string, public lname: string) {

}

}

person.component.html

<div>

    <h3>Student (Child Component)</h3>

     <br/>

    Roll No:<input  (input)="student.id=$event.target.value" /> <br/>

    FName: <input   (input)="student.fname=$event.target.value" /> <br/>

    LName: <input   (input)="student.lname=$event.target.value" /> <br/>

    <br/>

    <button (click)="update()">Update</button>

</div>

person.component.ts

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

import {Student} from '../student';

@Component({

selector: 'app-person',

templateUrl: './person.component.html',

styleUrls: ['./person.component.css']

})

export class PersonComponent implements OnInit {

@Input() student : Student;

@Output() updateStudentData = new EventEmitter<Student>();

studentUpdate =new Student(1,"abc","def");

constructor() { }

ngOnInit() {

}

update() {

this.studentUpdate.id=this.student.id;

this.studentUpdate.fname = this.student.fname;

this.studentUpdate.lname = this.student.lname;

this.updateStudentData.emit(this.studentUpdate);

}

}

app.component.html

<app-person (updateStudentData) ="saveData($event)"

    [student] ="studentObj"> </app-person>

<br><br>

<h4>Parent Component</h4>

<p>{{fullName}}</p>

app.component.ts

import { Component } from '@angular/core';

import {Student} from './student';

@Component({

selector: 'app-root',

templateUrl: './app.component.html',

styleUrls: ['./app.component.css']

})

export class AppComponent {

  fullName = '';

  studentObj = new Student(100, 'Mahesh', 'Sharma');

  saveData(stu) {

   this.fullName =stu.id + ' ' + stu.fname + ' ' + stu.lname ;

}

}