

## STEP 12: @Output [ Child to Parent ]

1. To pass data from emp form component to employee list component so that new employee data can be added in the form, use @Output
2. Data from child can only be passed to parent using event emitter. Add below in emp form component. DO NOT FORGET TO import .

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

```
@Output()  
empadded:EventEmitter<Employee> = new EventEmitter();
```

3. Add below code in saveemployee method added before in emp form component:

```
this.empadded.emit(emp.value)  
emp={eid:0, ename:"",email:"",phone:"", address:{city:"", country:"", zipcode:0} }  
emp.reset();
```

4. Modify the code in app component html to accept data from the form and pass it to employee list component as follows:

```
<app-empform (empadded)="newEmpAdded($event)"></app-empform>
```

5. Add below in app component ts file:

```
newemp:any;  
newEmpAdded(newemp:any){  
  console.log(newemp)  
  this.newemp = newemp;  
}
```

6. Update the app component to pass newemp to employee list component

```
<app-employees [newemp]="newemp"></app-employees>
```

7. Update the employee list component to accept this new emp and add in the employee list

```
@Input()  
newemp:any={ }
```

```
ngOnChanges(changes: SimpleChanges): void {  
  console.log(this.newemp)  
  if(this.newemp !== undefined)  
    this.employees.unshift(this.newemp)  
}
```

8. Can update the code to edit and delete the employee, Modify the code in employee list component to add buttons for delete and edit.

```
<div *ngIf="employees.length > 0">
  <div *ngFor="let emp of employees">
    <app-employee [employee]="emp">
      <button (click)="delete(emp)">Delete</button>
      <button (click)="edit(emp)">Edit</button>
    </app-employee>
  </div>
</div>
```

9. These buttons will be added as children to employee component html form

```
<div class="employee">
  <p>Id: {{employee.eid}}</p>
  <p>Name: {{employee.ename}}</p>
  <p>Email: {{employee.email}}</p>
  <p>Phone: {{employee.phone}}</p>
  <ng-content></ng-content>
</div>
```

10. Implement functions for delete and edit in the employeeelist component.

```
delete(emp:Employee)
{
  let objindx = this.employees.findIndex(employee=>employee.eid === emp.eid);
  this.employees.splice(objindx,1)
}
edit(emp:Employee)
{
  // complete the code to display a form to edit and update the employee
  console.log(this.employee)
}
```

11. To conditionally render employee form, add below in app component ts and html

```
showaddEmpForm:boolean = false;

<button (click)="showaddEmpForm = !showaddEmpForm">Add New
Employee</button>
<div *ngIf="showaddEmpForm">
  <app-empform (empadded)="newEmpAdded($event)"></app-empform>
</div>
```