# Fsd internal 1

Create a simple multiplier Angular JS application which will multiply two numbers and display the result

Sol:

```
Source code
<!DOCTYPE html>
<html>
<head>
  <title>First AngularJS Application</title>
  <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.7.9/angular.min.js"></script>
</head>
<body ng-app >
  <h1>First AngularJS Application</h1>
  Enter Numbers to Multiply:
  <input type="text" ng-model="Num1" /> x <input type="text" ng-model="Num2" />
</br>
 <h1 ng-model="Num1 * Num2">{{Num1 * Num2}}</h1>
</body>
</html>
```

2Q) Write an angular program to share data from parent to child component via @Input Decorator.

Sol:

To create new component "ng g c child"

App.component.html:

```
<app-child></app-child>
<app-child [cdata] = "pdata"></app-child>
```

#### App.comoponent.ts

```
import { Component } from '@angular/core';
@Component({
   selector: 'app-root',
   templateUrl: './app.component.html',
   styleUrls: ['./app.component.css']
})
export class AppComponent {
   title = 'week3';
   pdata: String = "gamma";
}
```

## Child.componet.html:

```
<hild works!</p>{{cdata}}
```

#### Child.component.ts:

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

@Component({
    selector: 'app-child',
    templateUrl: './child.component.html',
    styleUrls: ['./child.component.css']
})

export class ChildComponent {
  @Input()
  cdata:String = "";
}
```

3q) Write an angular program to share data from child to parent component via @Output Decorator.

# App.component.html

```
<app-child (cdata) = "pdata = $event"></app-child>
{{pdata}}
```

# Child.component.html

```
<button (click)="passtoparent()">send</button>
```

## App.component.ts

```
import { Component } from '@angular/core';
@Component({
   selector: 'app-root',
   templateUrl: './app.component.html',
   styleUrls: ['./app.component.css']
})
export class AppComponent {
   title = 'week3';
   pdata: String = "";
}
```

## **Child.component.ts**

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

@Component({
    selector: 'app-child',
    templateUrl: './child.component.html',
    styleUrls: ['./child.component.css']
})
export class ChildComponent {
    @Output()
    cdata = new EventEmitter();
    message = "gamma";
    passtoparent(){
        this.cdata.emit(this.message);
}
```

5q) Write an inline template to display college details(name ,department name,and address etc).

6q) Write an external template to display student details(id and name.etc).

# **App.component.ts:**

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

@Component({
    selector: 'app-root',
    templateUrl: './app.component.html',
    styleUrls: ['./app.component.css']
})

export class AppComponent {
    title = 'myapp';
student_detail={id:101, name:"Sanjay Paul"}
}
```

# App.component.html:

```
<h1> This is External Template Example</h1>
<div>
<div class="stud_id">
Student ID:{{student_detail.id}}
</div>
```

```
<div class="stud_name">
Student Name:{{student_detail.name}}
</div>
</div>
```

# **App.component.css:**

```
h1 { font-weight: normal; color:red;}
```

**q7)** Write an angular program to use built-in pipes: Uppercase, Lowecase, Date, Currency, Json and Slice

app.component.html

#### App.component.ts

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

@Component({
    selector: 'app-root',
    templateUrl: './app.component.html',
})

export class AppComponent {
    name = 'Angular';
    today = new Date();
    price = 123.456;
    object = { foo: 'bar', baz: 42 };
    text = 'Lorem ipsum dolor sit amet';
}
```

8q) Create custom PIPES to multiply two numbers.

Use command ng g pipe multiply #to create new pipe page

App.component.html

## Multiple.pipe.ts

```
import { Pipe, PipeTransform } from '@angular/core';

@Pipe({
   name: 'multiply'
})
export class MultiplyPipe implements PipeTransform {

   transform(value: number, multiplier: number): number {
     return value * multiplier;
   }
}
```

9q) Write an angular example to demonstrates ng-if, ng-readonly, and ng-disabled directives.

App.component.html

#### App.component.ts

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

```
selector: 'app-root',
  templateUrl: './app.component.html',
})
export class AppComponent {
  showText = false;
  text = 'Editable text';
  readonly = false;
  disabled = false;

  toggleReadonly() {
    this.readonly = !this.readonly;
  }
  toggleDisabled() {
    this.disabled = !this.disabled;
  }
}
```

10q) Write an angular program to perform Arithmetical operations using ngSwitch.

```
<div>
   <h2>Arithmetic Operations</h2>
   <input type="number" [(ngModel)]="a">
   <select [(ngModel)]="op">
     <option value="+">+</option>
     <option value="-">-</option>
     <option value="*">*</option>
     <option value="/">/</option>
   </select>
   <input type="number" [(ngModel)]="b">
   <button (click)="calculate()">Calculate</button>
   <div [ngSwitch]="op">
     <div *ngSwitchCase="+">Result: {{ a + b }}</div>
     <div *ngSwitchCase="-">Result: {{ a - b }}</div>
     <div *ngSwitchCase="*">Result: {{ a * b }}</div>
     <div *ngSwitchCase="/">Result: {{ a / b }}</div>
     <div *ngSwitchDefault>Please select an operation</div>
   </div>
 </div>
```

# App.component.ts

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

```
@Component({
    selector: 'app-root',
    templateUrl: './app.component.html',
})
export class AppComponent {
    a: number;
    b: number;
    op = '+';

    calculate() {
        // do nothing, the result is displayed using ngSwitch
    }
}
```