

## **app.module.ts**

```
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';
import { FormsModule } from '@angular/forms';
import { AppComponent } from './app.component';
import { TutorialComponent } from './tutorial.component';
import { DataBindingComponent } from './databinding.components';
import { ClassStyleBinding } from './classstylebinding.component';
import { DirectiveComponent } from './directive.component';
import { ChildComponent } from './child.component';
```

```
@NgModule({
  declarations: [
    AppComponent,
    TutorialComponent,
    DataBindingComponent,
    ClassStyleBinding,
    DirectiveComponent,
    ChildComponent
  ],
  imports: [
    BrowserModule, FormsModule
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule {}
```

## **app.component.ts**

```
import { Component } from '@angular/core';
@Component({
  selector: 'app-root',
  templateUrl: 'app.component.html',
  styles: [`h4{color:blue;}
    div.classstylebind { width:620px; margin: auto; border: 3px solid #73AD21;}`,
  ]
})
export class AppComponent {
  title = 'Angular2';
  public childData: string;
}
```

## app.component.html

```
<!--The content below is only a placeholder and can be replaced.-->
<div style="text-align:center">
  <h1> Welcome in {{ title }}! </h1>
  
</div>
<h2 style="color:green;" align="center">This is a first View of angular2 By Arvind </h2>
<hr>
<table>
  <tr>
    <td>
      <div class="classstylebind" style="background-color: #52a367;">
        <h2>Input and Output</h2>
        <h4>Parent App Component (app.component.ts)</h4>
        <div class="tab">
          Enter Parent AppComponent Value : <input type="text" #ptext (keyup)="0">
          <p>Content from Child Component : {{childData}}</p>
        </div>
        <childcomponent [parentData]="ptext.value" (childEvent)="childData=$event"></childcomponent>
      </div>
    </td>
    <td>
      <div class="classstylebind" style="background-color: #747df8;">
        <directivecomponent></directivecomponent>
      </div>
    </td>
  </tr>
  <tr>
    <td>
      <div class="classstylebind" style="background-color: #747df8;">
        <classstylebind></classstylebind>
      </div>
    </td>
    <td>
      <div style="background-color: rgb(235, 110, 110);">
        <h1>Hello World from App Component</h1>
        <h4>Header 4 from App Component</h4>
      </div>
      <div style="background-color: rgb(123, 219, 231);">
        <my-tutorials></my-tutorials>
      </div>
      <div style="background-color: rgb(150, 150, 240);">
        <my-data></my-data>
      </div>
    </td>
  </tr>
</table>
```

## customAngularStyle.css

```
.firstDiv{
  background-color: #ffb3b3;
}

div.classstylebind {
  width:620px;
  margin: auto;
  border: 3px solid #73AD21;
}
```

## tutorials.component.ts

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

@Component({
  selector: 'my-tutorials',
  template: `<h2>This line is come from Tutorials Component</h2>
    <h4>Header 4 from Tutorials Component</h4>`,
  styles: [
    `h4{color:green}`
  ]
})

export class TutorialsComponent{}
```

## databinding.components.ts

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

@Component({
  selector: 'my-data',
  template: `<h2>This is from {{title}}</h2>
    <img width="50" [src]="imageLink"><br>
    <input type="text" value="Angular"/>`,
  styles: [`h2{
    color:red;
  }`]
})

export class DataBindingComponent{

  public title="\"Data Binding Component\"";
  public imageLink="https://lh5.googleusercontent.com.jpg";
}
```

## classstylebinding.component.ts

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

@Component({
  selector: 'classstylebind',
  templateUrl: 'classstylebinding.component.html',
  styles: [`.myClass{
    color:red;
 }`]
})

export class ClassStyleBinding{

  public title="Class CSS Binding from the same Component";
  public applyclass = false;
  public applyred = false;
  public fname;
  public lname;

  onClick(value){
    console.log('Click Me Button Worked with '+value);
  }

  onEvent(value){
    console.log('Event Me Button Worked with '+value);
  }
}
```

## classstylebinding.component.html

```
<h2>{{title}}</h2>
<!--Two way binding in this div-->
<div style="background-color: #eee111;">
  <h3>Two Way binding:</h3>
  <input type="text" [(ngModel)] = "fname"/>
  <input type="text" [(ngModel)] = "lname"/>
  Full Name : {{fname}} {{lname}}
</div>
<div [class.myClass]="applyclass">This is class binding</div>
<div [style.color]="applyred? 'red':'yellow'">This is style binding</div>
<div style="background-color: rgb(78, 207, 207);">
  <h3>Event Binding</h3>
  <button (click)="onClick(demoInput.value)">Click Me</button>
  <input type = "text" #demoInput>
  <button (click)="onEvent($event)">Event Me</button>
</div>
```

## directive.component.ts

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

@Component({
  selector: 'directivecomponent',
  templateUrl: 'directive.component.html',
  styles:[`div.tab{margin-left:20px;}
    .classOne{color:white}
    .classTwo{background-color:red}`]
})

export class DirecitiveComponent{

  public title = 'Directive Component:'
  public showElement = true;
  public color = 'green';
  public colors=['red', 'blue', 'green'];
  public cone=true;
  public ctwo=true;
  public style='italic';
  public size='30px';

  toggleCone(){
    this.cone = !this.cone;
  }

  toggleCtwo(){
    this.ctwo = !this.ctwo;
  }
}
```

## directive.component.html

```
<h3>This is {{title}}</h3>
<h4>Ex. of ngIf</h4>
<div class="tab">
  <p *ngIf="showElement">Show Element</p>

</div>
<h4>Ex. of ngSwitch</h4>
<div class="tab" [ngSwitch]="color">
  <p *ngSwitchCase="'red'">Red color is shown</p>
  <p *ngSwitchCase="'blue'">Blue color is shown</p>
  <p *ngSwitchDefault>Invalid color</p>
</div>
<h4>Ex. of ngFor</h4>
<div class="tab">
  Color List
  <ul>
    <li *ngFor='let color of colors'>{{color}}</li>
  </ul>
</div>
<h4>Ex. of Attribute Directive</h4>
<div class="tab">
  <p [ngClass]="{classOne:cone, classTwo:ctwo}">ngClass Paragraph</p>
  <button (click)="toggleCone()">Toggle Text Color</button>
  <button (click)="toggleCtwo()">Toggle Text Background</button>
</div>

<div class="tab">
  <p [ngStyle]="{'font-style':style, 'font-size':size}">ngtyle Paragraph</p>
</div>
```

## child.component.ts

```
import { Component } from "@angular/core";
import { EventEmitter } from "@angular/core";

@Component({
  selector: 'childcomponent',
  templateUrl: 'child.component.html',
  styles:[`div.tab{margin-left:20px;}`],
  inputs: ['parentData'],
  outputs: ['childEvent']
})

export class ChildComponent{

  public parentData: string;
  childEvent = new EventEmitter<string>();
  public date = new Date();

  onChange(value:string){
    this.childEvent.emit(value);
  }
}
```

## child.component.html

```
<h2 hidden>Input and Output</h2>
<h4>Child Component (child.component.ts)</h4>
<div class="tab">
  Enter Child Component Value <input type="text" #childtext (keyup)="onChange(childtext.value)">
  <p>Content from Parent App Component : {{parentData}}</p>
</div>

<h4>Use of Pipes with date</h4>
<div class="tab">
  <h3>{{date}}</h3>
  <h3>{{date | date:'fullDate'}}</h3>
  <h3>{{date | date:'shortDate'}}</h3>
  <h3>{{date | date:'mediumTime'}}</h3>
  <h3>{{date | date:'shortTime'}}</h3>
</div>
```