Pipes

Remember we used a pipe? json

What are pipes?

Pipes transform data into another format.

For example:

We can display a string in upper/ lower/ title case using “string” pipes

Built – in pipes:

String pipes

Currency pipes

Numeric pipes

Date pipes

Example:

<p>ajay works!</p>

{{ num | number:"1.2-3"}}

<br>

{{ today | date:'dd-MMM-yyyy'}}

<br>

{{ name | titlecase }}

<br>

{{ num | currency:'INR' }}

  num:number=10;

  today:Date=new Date();

  name:string="ajay";

Custom pipes:

We can create our own pipe.

ng generate pipe length

class decorated by @Pipe

that class implements PipeTransform interface and override transform

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

@Pipe({

  name: 'length'

})

export class LengthPipe implements PipeTransform {

  transform(value: unknown, ...args: unknown[]): unknown {

    var temp:string=<string>value;

    return temp.length;

  }

}

{{ 'Jagadeeswaran' | length }}

Arrays forEach, filter, map, reduce

var arr=[];

arr.push(20);

arr.pop();

arr.forEach();

<https://blog.lucasarvelo.com/2020/05/31/javascript-array-methods-foreach-map-filter-and-reduce/>

AJAX

Asynchronous Javascript And Xml

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

    <input type="button" value="Click" onclick="loadDoc()">

    <br>

    <p id="p1"></p>

    <script>

        function loadDoc() {

  var xhttp = new XMLHttpRequest();

  xhttp.onreadystatechange = function() {

    if (this.readyState == 4 && this.status == 200) {

      document.getElementById("p1").innerHTML =

      this.responseText;

    }

  };

  xhttp.open("GET", "https://jsonplaceholder.typicode.com/todos/1", true);

  xhttp.send();

}

    </script>

</body>

</html>

JQuery

Is an application of Javascript

<script src="https://code.jquery.com/jquery-3.7.0.js" integrity="sha256-JlqSTELeR4TLqP0OG9dxM7yDPqX1ox/HfgiSLBj8+kM=" crossorigin="anonymous"></script>

Getting started with Jquery:

1. In html file, we want to use jquery, we can reference to a jquery CDN

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

    <script src="https://code.jquery.com/jquery-3.7.0.js">

        /\* do not write anything here\*/

    </script>

    <script>

        function fn2()

        {

            var x=parseInt($("#no1").val());

                var y=parseInt($("#no2").val());

                $("#divResult").html(x+y)

                $(".para").css("color","red");

        }

        $(document).ready(function(){

            $("input[type=text]").focus(function(){

                $(this).css("background-color","yellow");

            });

            $("input[type=text]").blur(function(){

                $(this).css("background-color","white");

            });

            $("#no1").keyup(function(){

                fn2();

            });

            $("#no2").keyup(function(){

                fn2();

            });

            $("#btnAdd").click(function(){

               fn2();

            });

        });

    </script>

</head>

<body>

    Number 1: <input type="number" name="" id="no1"><br>

    Number 2: <input type="number" name="" id="no2"><br>

    <input type="button" value="Add" id="btnAdd">

    <div id="divResult"></div>

    <p>This is para 1</p>

    <p class="para">This is para 2</p>

    <p>This is para 3</p>

    <p class="para">This is para 4</p>

    <p>This is para 5</p>

    <p class="para">This is para 6</p>

    <p>This is para 7</p>

    <p class="para">This is para 8</p>

    <p>This is para 9</p>

    <input type="text" name="" id="">

    <input type="text" name="" id="">

    <input type="text" name="" id="">

    <input type="text" name="" id="">

    <input type="text" name="" id="">

    <input type="text" name="" id="">

    <input type="text" name="" id="">

    <input type="text" name="" id="">

</body>

</html>