

Server-Side programming

Practical Assignment



Submitted By: Shivansh Dashore

21C6061

B.E. 3rd Year Cs A

IET-DAVV

Assignment 1

Q1. <html>

<head>

<title> The first page </title>

</head>

<body>

Hello World

</body>

</html>

Q2. <!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Shivansh Q2</title>

    <style>

        table, th, td {

            border: 1px solid black;

        }

        th, td {

            padding: 5px;

            text-align:center;

            height:6px;

        }

    </style>

</head>

<body>

    <table>

        <h4 style="font-weight: bold;"> Specification Table with hours and marks </h4>

        <tr>

            <th rowspan="2"> Unit No. </td>

            <th rowspan="2"> Unit Title </td>

            <th rowspan="2"> Teaching Hours </th>

            <th colspan="4">Distribution of Theory Marks</th>

         </tr>

        <tr>

            <td>R Level</td>

            <td>U Level</td>

            <td>A Level</td>

            <td>Total Marks</td>

          </tr>

        <tr>

            <td>I</td>

            <td style="text-align:left">Introduction to Internet Technology</td>

            <td>2</td>

            <td>4</td>

            <td>4</td>

            <td>0</td>

            <td>8</td>

          </tr>

        <tr>

            <td>II</td>

            <td style="text-align:left">Basics of HTML & CSS </td>

            <td>6</td>

            <td>0</td>

            <td>2</td>

            <td>6</td>

            <td>8</td>

          </tr>

        <tr>

            <td>III</td>

            <td style="text-align:left">Active Server Pages 3.0 </td>

            <td>6</td>

            <td>4</td>

            <td>8</td>

            <td>0</td>

            <td>12</td>

          </tr>

        <tr>

            <td>IV</td>

            <td style="text-align:left">Server Side Coding with VBScript and XML</td>

            <td>8</td>

            <td>2</td>

            <td>4</td>

            <td>8</td>

            <td>14</td>

          </tr>

        <tr>

            <td>V</td>

            <td style="text-align:left">ASP Objects & Components</td>

            <td>10</td>

            <td>4</td>

            <td>4</td>

            <td>6</td>

            <td>14</td>

          </tr>

        <tr>

            <td>VI</td>

            <td style="text-align:left">Accessing database with ASP & ADO </td>

            <td>10</td>

            <td>4</td>

            <td>4</td>

            <td>6</td>

            <td>14</td>

          </tr>

        <tr>

            <th style="border: none"></th>

            <th style="text-align:left">Total</th>

            <th>42</th>

            <th>18</th>

            <th>26</th>

            <th>26</th>

            <th>70</th>

          </tr>

        </table>

</body>

</html>

**Q3.** <!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Shivansh Q3</title>

    <style>

        table, th, td {

            border: 1px solid black;

        }

        th, td {

            padding: 3px;

            text-align:center;

            height:4px;

        }

    </style>

</head>

<body>

    <table>

        <tr>

            <th> HTML Tag </th>

            <th> Output </th>

        </tr>

        <tr>

            <td> Normal Text </td>

            <td> hello world </td>

        </tr>

        <tr>

            <td> Font and its attributes </td>

            <td style="color:blue; font-size:180%;"> hello world </td>

        </tr>

        <tr>

            <td>&lt;B&gt;</td>

            <td> <b> Bold </b> </td>

        </tr>

        <tr>

            <td>&lt;I&gt;</td>

            <td> <i> Italic </i> </td>

        </tr>

        <tr>

            <td>&lt;U&gt;</td>

            <td> <u> Underline </u> </td>

        </tr>

        <tr>

            <td>&lt;EM&gt;</td>

            <td> <em> Emphasis </em> </td>

        </tr>

        <tr>

            <td>&lt;STRONG&gt;</td>

            <td> <strong> STRONG </strong> </td>

        </tr>

        <tr>

            <td>&lt;TELETYPE&gt;</td>

            <td> <tt> TELETYPE </tt> </td>

        </tr>

        <tr>

            <td>&lt;CITE&gt;</td>

            <td> <cite> Citation </cite> </td>

        </tr>

        <tr>

            <td>&lt;STRIKE&gt;</td>

            <td> <strike> Strike through text </strike> </td>

        </tr>

        <tr>

            <td>&lt;BIG&gt;</td>

            <td> <big> Text in big font </big> </td>

        </tr>

        <tr>

            <td>&lt;SMALL&gt;</td>

            <td> <small> Text in small font </small> </td>

        </tr>

        <tr>

            <td>&lt;SUB&gt;</td>

            <td> a <sub> b </sub> </td>

        </tr>

        <tr>

            <td>&lt;SUP&gt;</td>

            <td> a <sup> b </sup> </td>

        </tr>

    </table>

</body>

</html>

**Q4.** <!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Q4 Shivansh</title>

</head>

<body>

    <p><b> HTML Lists: Ordered, Unordered & Definition list </b></p>

<hr>

<p>Following is the list of proposed student activities like: </p>

<ol>

    <li> Develop programs related to unit wise topics in computer laboratory. </li>

    <li> Develop any module of to be useful in real life applications. </li>

    <li> Multimedia presentation of module developed by students. </li>

</ol>

<hr>

<p> List of Softwares/Learning Websites: </p>

<ul style="list-style-type:disc;">

    <a href="https://www.w3schools.com/asp/">www.w3schools.com/asp</a>

    <li><u> ASP Tutorial- W3Schools </u> </li>

    <li><u> Classic ASP Tutorials & Articles- Web Wiz </u> </li>

    <a href="https://www.webwiz.net/kb/">www.webwiz.co.uk-knowledgebase</a>

    <li><u> HTML Tutorial- W3Schools </u> </li>

    <a href="https://www.w3schools.com/html/">www.w3schools.com/html</a>

    <li><u> CSS Tutorial </u> </li>

    <a href="https://www.w3schools.com/css/">www.csstutorial.net</a>

    <li><u> VBScript Tutorial- Tutorials Point </u> </li>

    <a href="https://www.tutorialspoint.com/vbscript/index.htm">https://www.tutorialspoint.com/vbscript/index.htm</a>

    <li><u> ADO Tutorial- W3Schools </u> </li>

    <a href="https://www.w3schools.com/asp/ado\_intro.asp">www.w3schools.com/ado/default.asp</a>

    </ul>

<hr>

<div>

    <h3 style="font-weight: normal;"> HTML</h3>

    <p>Hyper Text Markup Launguage</p>

    <h3 style="font-weight: normal;">XML</h3>

    <p>eXtensible Markup Language</p>

</div>

</body>

</html>

**Q5. & Q6**.

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>**Q5 & Q6 Shivansh**</title>

</head>

<body>

    <h2> Click on the image to visit website for more such photos </h2>

<a href="https://unsplash.com/s/photos/white-green">

<img src="authloginpage.jpg" alt="Green-white background" width="300" height="400">

</a>

</body>

</html>

**Q7.** <!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>**Q7 Shivansh**</title>

</head>

<body>

    <h1 style="color: red;" align="center">Employee Registration Form</h1>

<form action="" method="post">

    <table border="0" align="center" cellspacing="10">

    <tr>

    <td style="font-size: 20px;" colspan="2" align="center">

        <b>

        <input type="radio" id="mr" name="title" value="HTML">

        <label for="html">Mr.</label>

        <input type="radio" id="mrs" name="title" value="HTML">

        <label for="html">Mrs.</label>

        <input type="radio" id="mr" name="title" value="HTML">

        <label for="html">Ms.</label>

        </b>

    </tr>

<tr>

<td ><label for="id" style="font-size: 20px;" >First Name </label></td>

 <td><input id="id" maxlength="50" name="name" type="text"/></td>

</tr>

<tr>

<td><label for="lname" style="font-size: 20px;">Last Name</label></td>

 <td> <input type="text" id="lname" name="lname"></tr>

</tr>

<tr>

<td style="font-size: 20px;" ><label for="email">Mail Address 1</label></td>

  <td><input type="text" id="email" name="email"></td>

</tr>

<tr>

<td style="font-size: 20px;" ><label for="email">Mail Address 2</label></td>

  <td><input type="text" id="email" name="email"></td>

</tr>

<tr>

<td ><label for="city" style="font-size: 20px;">City</label></td>

 <td> <input type="text" id="city" name="city">

</tr>

<tr>

    <td><label for="state" style="font-size: 20px;">State </label></td>

    <td><select name="state" id="state">

        <option value="Maharashtra">Maharashtra</option>

        <option value="Gujarat">Gujarat</option>

        <option value="Kerela">Kerela</option>

        <option value="Chattisgarh">Chattisgarh</option>

    </select></td>

</tr>

<tr>

    <td><label for="zip" style="font-size: 20px;">Zip</label></td>

    <td> <input type="number" id="zip" name="zip"></td>

</tr>

<tr>

    <td><label for="photo" style="font-size: 20px;">Upload Photo</label></td>

    <td> <input type="file" id="zip" name="zip"></td>

</tr>

<tr>

    <td><label for="e-mail" style="font-size: 20px;">E-mail</label></td>

    <td> <input type="email" id="e-mail" name="e-mail"></td>

</tr>

<tr>

<td style="font-size: 20px;" ><label for="phone">Mobile</label></td>

  <td><input type="tel" id="phone" name="phone" pattern="[0-9]{10}" placeholder="+91"></td>

</tr>

<tr>

    <td><label for="languages" style="font-size: 20px;">Languages Known</label></td>

    <td>

        <label>

            <input type="checkbox" name="languages" value="Gujrati"> Gujrati

          </label><br>

          <label>

            <input type="checkbox" name="languages" value="Hindi"> Hindi

          </label><br>

          <label>

            <input type="checkbox" name="languages" value="English"> English

          </label><br>

          <label>

            <input type="checkbox" name="languages" value="Marathi"> Marathi

          </label><br>

    </td>

</tr>

<tr>

    <td><label for="addInfo" style="font-size: 20px;">Additional Information</label></td>

    <td> <textarea name="addInfo" id="addInfo" rows="4"></textarea></td>

</tr>

<tr>

    <td></td>

    <td><input type="submit" value="Submit">

    <input type="reset" value="Reset"></td>

</tr>

</form>

</body>

</html>

**Q11.**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Q11 Shivansh</title>

</head>

<body>

    <h3 align="center"><u> MODEL QUESTION PAPER FOR SUMMATIVE TEST- II<br> MATHEMATICS <br> CLASS-VIII</u> </h3>

<p> Maximum Marks: 20 </p>

<p> <b>General Instructions: </b>

<p> 1. All questions are compulsory. <br> 2. The question paper consist of 7 questions divided in 2 sections A and B. <br> 3. The section A contains 4 questions of 2 marks each.

     <br> 4. The section A contains 3 questions of 4 marks each. </p>

<h3 align="center"><u> SECTION-A </u> </h3>

<p> Q1- What will be the product of (a<sup>2 </sup>) x (2a<sup>22</sup>) x (4a<sup>26</sup>) </p>

<p> (a) 8a<sup>46</sup> <br> (b) 8a<sup>48</sup> <br> (c) 6a<sup>50</sup> <br> (d) 8a<sup>50</sup> </p>

<p> Q2- Water is oxidised to oxygen by</p>

<p> (a) H<sub>2</sub>O<sub>2</sub> <br> (b) KMnO<sub>4</sub> <br> (c) CIO<sub>2</sub> <br> (d) Fluorine

</body>

</html>

Please refer to vs code and git for Q8,9,10.

Assignment 2

//Q1.Write a JavaScript program to find all the index positions of a given word within a given string.

const testString = "test";

const para = "test subject : maths, test duration: 90 mins, test max marks : 30";

const indexes = (para,testString)=>{

    let indexArr = [];

    let ind = para.indexOf(testString);

    while(ind != -1){

        indexArr.push(ind);

        ind = para.indexOf(testString,ind+1);

    }

    return indexArr;

}

console.log(indexes(para,testString));

//Q2.Write a JavaScript program to find the first index of a given element in an array using the linear search algorithm.

const arr = [5,4,3,2,1,2,3,4,5,6,7,8];

let index = (arr,key)=>{

    for (let i = 0; i < arr.length; i++) {

        if(arr[i]===key){

            return i;

        }

    }

    return -1;

}

console.log(index(arr,7));

//Q3.Write a JavaScript program to sort a list of elements using Quick sort.

const arr = [3,5,2,56,1,23,7];

function partition(arr,low,high) {

    let pivot = arr[low];

    let i= low ,j = high;

    while(i<j){

        while(arr[i] <= pivot && i<=high-1){

            i++;

        }

        while(arr[j] > pivot && j>=low + 1){

            j--;

        }

        if(i<j){

            let temp = arr[i];

            arr[i] = arr[j];

            arr[j] = temp;

        }

    }

    let temp = arr[low];

    arr[low] = arr[j];

    arr[j] = temp;

    return j;

}

function QuickSort(arr,low,high){

    if(low < high){

        let pIndex = partition(arr,low,high);

        QuickSort(arr,low,pIndex-1);

        QuickSort(arr,pIndex+1,high);

    }

    return arr;

}

console.log(QuickSort(arr,0,arr.length -1));

// 4.Write a JavaScript program to sort a list of elements using Merge sort.

const arr = [13, 46, 24, 52, 9, 20,2,9];

function MergeSort(arr,low,high){

    if(low >= high) return;

    let mid = Math.floor((low+high)/2);

    MergeSort(arr,low,mid);

    MergeSort(arr,mid+1,high);

    Merge(arr,low,mid,high);

    return arr;

}

function Merge(arr,low,mid,high){

    let temp = [];

    let left = low;

    let right = mid+1;

    while(left<=mid && right<=high){

        if(arr[left] <= arr[right]){

            temp.push(arr[left]);

            left++;

        }

        else{

            temp.push(arr[right]);

            right++;

        }

    }

    while(left<=mid){

        temp.push(arr[left]);

        left++;

    }

    while(right<=high){

        temp.push(arr[right]);

        right++;

    }

    for (let i = low; i <= high; i++) {

        arr[i] = temp[i-low];

    }

    return arr;

}

console.log(MergeSort(arr,0,arr.length-1));

//5.Write a JavaScript program to sort a list of elements using Heap sort.

const arr = [6,3,5,1,2,4];

var N = arr.length;

function heapSort( arr)

{

    var N = arr.length;

    for (var i = Math.floor(N / 2) - 1; i >= 0; i--)

        heapify(arr, N, i);

    for (var i = N - 1; i > 0; i--) {

        var temp = arr[0];

        arr[0] = arr[i];

        arr[i] = temp;

        heapify(arr, i, 0);

    }

    return arr;

}

function heapify(arr, N, i)

{

    var largest = i;

    var l = 2 \* i + 1;

    var r = 2 \* i + 2;

    if (l < N && arr[l] > arr[largest])

        largest = l;

    if (r < N && arr[r] > arr[largest])

        largest = r;

    if (largest != i) {

        var swap = arr[i];

        arr[i] = arr[largest];

        arr[largest] = swap;

        heapify(arr, N, largest);

    }

}

console.log(heapSort(arr));

//Q6.Write a JavaScript program to sort a list of elements using Insertion sort

const arr = [13, 46, 24, 52, 9, 20];

function InsertionSort(arr) {

    for (let i = 1; i < arr.length ; i++) {

        let j=i;

        while(j>0 && arr[j]< arr[j-1]){

            let temp = arr[j];

            arr[j] = arr[j-1];

            arr[j-1] = temp;

            j--;

        }

    }

    return arr;

}

console.log(InsertionSort(arr));

//Q7.Write a JavaScript program to sort a list of elements using Bubble sort

const arr = [13, 46, 24, 52, 9, 20];

function BubbleSort(arr) {

    for (let i = 0; i < arr.length ; i++) {

        var didSwap=0;

        for (let j = 0; j < arr.length-i; j++) {

            if(arr[j]>arr[j+1]){

                let temp = arr[j];

                arr[j] = arr[j+1];

                arr[j+1] = temp;

                didSwap = 1;

            }

        }

        if(didSwap==0) break;

    }

    return arr;

}

console.log(BubbleSort(arr));

//Q8.Write a JavaScript program to sort the characters in a string alphabetically.

const myString = "scdoaebm";

const sortChars = (myString) => myString.split("").sort().join("");

console.log(sortChars(myString));

//Q9.Write a JavaScript program to check if a numeric array is sorted or not.

const arr1 = [4,3,6,5,2,1];

const arr2 = [12,23,45,63,67];

function isSorted(arr){

    for (let i = 0; i < arr.length -1; i++) {

        if(arr[i+1] < arr[i]) return false;

    }

    return true;

}

console.log(isSorted(arr1));

console.log(isSorted(arr2));

//Q10.Write a JavaScript function to validate whether a given value type is null or not

var value1 = 13;

var value2 = null;

var value3 = "string";

var value4 = "";

var value5 = {};

function isNull(val) {

    if(val === null){

        return true;

    }

    return false;

}

console.log(isNull(value1));

console.log(isNull(value2));

console.log(isNull(value3));

console.log(isNull(value4));

console.log(isNull(value5));

//Q11.Write a JavaScript function to validate whether a given value is a number or not

var num1 = 10;

var num2 = null;

var num3 = "number";

function isNumber(num){

    if(typeof num === "number"){

        return true;

    }

    return false;

}

console.log(isNumber(num1));

console.log(isNumber(num2));

console.log(isNumber(num3));

//Q12.Write a JavaScript function to validate whether a given value is RegExp or not.

function is\_regexp(value){

    return toString.call(value) === '[object RegExp]';

}

console.log(is\_regexp(/test/));

console.log(is\_regexp('bar'));

console.log(is\_regexp(72));

//Q13. Write a JavaScript program to delete the rollno property from the following object. Also print the object before or after deleting the property.

var student = {

    name : "David Rayy",

    sclass : "VI",

    rollno : 12

};

console.log("Before : "+JSON.stringify(student));

delete student['rollno'];

console.log("After : "+JSON.stringify(student));

//Q14. Write a JavaScript program to display the reading status (i.e. display book name, author name and reading status of the following books.

    var library = [

    {

    author: 'Bill Gates',

    title: 'The Road Ahead',

    readingStatus: true

    },

    {

    author: 'Steve Jobs',

    title: 'Walter Isaacson',

    readingStatus: true

    },

    {

    author: 'Suzanne Collins',

    title:  'Mockingjay: The Final Book of The Hunger Games',

    readingStatus: false

    }];

    for (var i = 0; i < library.length; i++)

    {

    var book = "'" + library[i].title + "'" + ' by ' + library[i].author + ".";

    if (library[i].readingStatus) {

        console.log(book+" reading");

    } else

    {

        console.log(book+" not reading");

    }

}

//Q15. Write a JavaScript program to create a clock. Note: The output will come every second. Expected Console Output : "14:37:42"

function my\_Clock()

{

    this.cur\_date = new Date();

    this.hours = this.cur\_date.getHours();

    this.minutes = this.cur\_date.getMinutes();

    this.seconds = this.cur\_date.getSeconds();

}

my\_Clock.prototype.run = function ()

{

    setInterval(this.update.bind(this), 1000);

};

my\_Clock.prototype.update = function ()

{

    this.updateTime(1);

    console.log(this.hours + ":" + this.minutes + ":" + this.seconds);

};

my\_Clock.prototype.updateTime = function (secs)

{

    this.seconds+= secs;

    if (this.seconds >= 60)

    {

    this.minutes++;

    this.seconds= 0;

    }

    if (this.minutes >= 60)

    {

    this.hours++;

    this.minutes=0;

    }

    if (this.hours >= 24){

    this.hours = 0;

    }

};

var clock = new my\_Clock();

clock.run();

//Q16.Write a JavaScript function to parse an URL.

var url = 'https://example.com/path/index.html?message=hello&who=world';

var parser = new URL(url);

// Protocol used in URL

console.log(parser.protocol);

// Host of the URL

console.log(parser.host);

// Port in the URL

console.log(parser.port);

// Hostname of the URL

console.log(parser.hostname);

// Search in the URL

console.log(parser.search);

// Search parameter in the URL

console.log(parser.searchParams);

//Q17.Write a JavaScript function to split a string and convert it into an array of words

const string = "Lorem ipsum dolor, sit amet consectetur adipisicing elit. Animi, facilis?"

const wordArray = (string)=>{

    return string.split(" ");

};

console.log(wordArray(string));

//Q18. Write a JavaScript function that takes a string with both lowercase and upper case letters as a parameter. It converts upper case letters to lower case, and lower case letters to upper case.

const string = "Hello WORLDs";

function changeCase(string){

        var toggledStr = "";

        for (var i = 0; i < string.length; i++) {

            var char = string.charAt(i);

            if (char === char.toUpperCase()) {

                toggledStr += char.toLowerCase();

            } else {

                toggledStr += char.toUpperCase();

            }

        }

    return toggledStr;

}

console.log(changeCase(string));

//Q19.Write a JavaScript function that returns the number of minutes in hours and minutes.

//"200 minutes = 3 hour(s) and 20 minute(s)."

function timeConvert(time){

    var output = "";

    var hrs = Math.floor(time/60);

    var min = time - (hrs\*60);

    output += time+" minutes = "+hrs+" hour(s) and "+min+" minute(s).";

    return output;

}

console.log(timeConvert(200));

//20.Write a JavaScript program to implement a stack that checks if a given element is present or not in the stack.

class Stack {

    constructor() {

        this.items = [];

    }

    push(element) {

        this.items.push(element);

    }

    pop() {

        if (this.isEmpty())

        return "Underflow";

    return this.items.pop();

    }

    peek() {

    if (this.isEmpty())

        return "No elements in Stack";

    return this.items[this.items.length - 1];

    }

    isEmpty() {

        return this.items.length === 0;

    }

    contains(element) {

        return this.items.includes(element);

    }

    displayStack(stack) {

        console.log("Stack elements are:");

        let str = "";

        for (let i = 0; i < stack.items.length; i++)

            str += stack.items[i] + " ";

    return str.trim();

    }

}

console.log("Initialize a stack:")

let stack = new Stack();

console.log("Input some elements on the stack:")

stack.push(1);

stack.push(4);

stack.push(3);

stack.push(2);

stack.push(5);

stack.push(6);

console.log(stack.displayStack(stack));

let n = 10;

console.log("Check if "+n+ " is present in the said stack?");

console.log(stack.contains(n));

n = 5;

console.log("Check if "+n+ " is present in the said stack?");

console.log(stack.contains(n));

//Q21. Write a JavaScript program to check whether a single linked list is empty or not. Return true otherwise false.

class Node {

    constructor(val) {

        this.val = val;

        this.next = null;

    }

}

class SinglyLinkedList {

    constructor(Head = null) {

        this.Head = Head

    }

    add(newNode){

        let node = this.Head;

        if(node == null){

            this.Head = newNode;

            return;

        }

        while (node.next) {

            node = node.next;

        }

        node.next = newNode;

    }

    isEmpty(){

        if(this.Head == null){

            console.log("List is empty.");

        }

        else{

            console.log("List not empty.");

        }

    }

    printList(){

        let node = this.Head;

        var str = ""

        while (node) {

            str += node.val + "->";

            node = node.next;

        }

        str += "NULL"

        console.log(str);

    }

}

let numList = new SinglyLinkedList();

numList.isEmpty();

numList.add(new Node(2));

numList.add(new Node(3));

numList.add(new Node(1));

numList.add(new Node(5));

numList.printList();

numList.isEmpty();

//Q22.Write a JavaScript program to create a class called 'Rectangle' with properties for width and height. Include two methods to calculate rectangle area and perimeter. Create an instance of the 'Rectangle' class and calculate its area and perimeter.

class Rectangle{

    constructor(height,width){

        this.height = height;

        this.width = width;

    }

    area(){

        return this.height \* this.width;

    }

    perimeter(){

        return 2\*(this.height+this.width);

    }

}

let rect = new Rectangle(15,20);

console.log("Area is : "+rect.area());

console.log("Perimeter is : "+rect.perimeter());

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Q23 Shivansh</title>

    <style>

        .carousel {

            display: flex;

            justify-content: center;

            align-items: center;

            margin: 100px auto;

        }

        .carousel img {

        width: 400px;

        height: 400px;

        }

        button{

            background-color: green;

            color: white;

            font-size: 16px;

            padding : 1rem;

            margin: 2rem;

            border: 0;

            border-radius: 20px;

            cursor: pointer;

        }

    </style>

</head>

<body>

    <div class="carousel">

        <button id="prev">Previous</button>

        <img id="image" src="carpenter1.jpg">

        <button id="next">Next</button>

    </div>

    <script>

        const image = document.getElementById('image');

        const prev = document.getElementById('prev');

        const next = document.getElementById('next');

        const images = ['carpenter1.jpg','carpenter2.jpg','carpenter3.jpg','carpenter4.jpg'];

        let currentIdx = 0;

        prev.addEventListener('click',()=>{

            currentIdx = (currentIdx -1 + images.length) % images.length;

            image.src =images[currentIdx];

        })

        next.addEventListener('click',()=>{

            currentIdx = (currentIdx+1) % images.length;

            image.src = images[currentIdx];

        })

    </script>

</body>

</html>

//Q24.Write a JavaScript program that uses a try-catch block to catch and handle a 'SyntaxError' when parsing an invalid JSON string.

const invalidJsonString = '{ "name": "John", "age": 30, "city": "New York"'; //end bracket not there so invalid

try {

    const parsedObject = JSON.parse(invalidJsonString);

    console.log("Parsed JSON object:", parsedObject);

} catch (error) {

    if (error instanceof SyntaxError) {

        console.error("Invalid JSON string. SyntaxError:", error.message);

    } else {

        console.error("An error occurred:", error.message);

    }

}

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Document</title>

</head>

<body>

    <button onclick="myFunction()">Press me</button>

    <script>

        function myFunction() {

        location.replace("https://www.youtube.com/")

        }

        </script>

</body>

</html>

Please refer to github repository and vs code for outputs.