1.Design a Form for Company Registration which includes all elements of form tag. Show appropriate Form output in compatible browser and show when user clicks on submit button, it will display: “Form submitted successfully”

<!DOCTYPE html>

<html>

<head>

<title>Company Registration Form</title>

</head>

<body>

<h1>Company Registration Form</h1>

<form id="registrationForm" action="#" method="post">

<label for="companyName">Company Name:</label>

<input type="text" id="companyName" name="companyName" required><br><br>

<label for="registrationNumber">Registration Number:</label>

<input type="text" id="registrationNumber" name="registrationNumber" required><br><br>

<label for="email">Email:</label>

<input type="email" id="email" name="email" required><br><br>

<label for="address">Address:</label>

<textarea id="address" name="address" required></textarea><br><br>

<label for="industry">Industry:</label>

<select id="industry" name="industry" required>

<option value="tech">Technology</option>

<option value="finance">Finance</option>

<option value="healthcare">Healthcare</option>

<option value="other">Other</option>

</select><br><br>

<label for="terms">Agree to Terms:</label>

<input type="checkbox" id="terms" name="terms" required><br><br>

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

</form>

<script>

document.getElementById("registrationForm").addEventListener("submit", function(event) {

event.preventDefault(); // Prevent the default form submission behavior

// Display the success message

alert("Form submitted successfully");

});

</script>

</body>

</html>

2. Design a Form For Student Registration Form which will include all elements of form tag. Show appropriate Form output in compatible browser and show when user clicks on submit button, it will display: “Form submitted successfully”

<!DOCTYPE html>

<html>

<head>

<title>Student Registration Form</title>

</head>

<body>

<h1>Student Registration Form</h1>

<form id="studentRegistrationForm" action="#" method="post">

<label for="firstName">First Name:</label>

<input type="text" id="firstName" name="firstName" required><br><br>

<label for="lastName">Last Name:</label>

<input type="text" id="lastName" name="lastName" required><br><br>

<label for="email">Email:</label>

<input type="email" id="email" name="email" required><br><br>

<label for="dateOfBirth">Date of Birth:</label>

<input type="date" id="dateOfBirth" name="dateOfBirth" required><br><br>

<label for="gender">Gender:</label>

<input type="radio" id="male" name="gender" value="male" required>

<label for="male">Male</label>

<input type="radio" id="female" name="gender" value="female" required>

<label for="female">Female</label><br><br>

<label for="course">Course:</label>

<select id="course" name="course" required>

<option value="engineering">Engineering</option>

<option value="medicine">Medicine</option>

<option value="business">Business</option>

<option value="arts">Arts</option>

</select><br><br>

<label for="terms">Agree to Terms:</label>

<input type="checkbox" id="terms" name="terms" required><br><br>

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

</form>

<script>

document.getElementById("studentRegistrationForm").addEventListener("submit", function(event) {

event.preventDefault(); // Prevent the default form submission behavior

// Display the success message

alert("Form submitted successfully");

});

</script>

</body>

</html>

4.Write a HTML Script using HTML tags and CSS features for Car Service Centre: Beautify Content using Different Car workshop images and Car accessories and show details of various options for Car Servicing Packages

<html>

<head>

<title>Car Service Center</title>

<style>

body {

font-family: Arial, sans-serif;

background-color:black;

color:yellow;

}

}

header {

color:red;

text-align: center;

padding: 10px;

}

.container {

max-width: 1200px;

margin: 0 auto;

padding: 20px;

}

.package {

border: 1px solid ;

padding: 10px;

margin-bottom: 20px;

border-radius: 5px;

}

.package h3 {

margin: 0;

}

.package p {

margin: 5px 0;

}

.gallery {

display: grid;

grid-template-columns: repeat(3, 1fr);

grid-gap: 10px;

}

.gallery img {

width: 100%;

border-radius: 5px;

}

</style>

</head>

<body>

<header>

<h1>Car Service Center</h1>

</header>

<div class="container">

<h2>Our Car Servicing Packages</h2>

<div class="package">

<h3>Basic Service Package</h3>

<p>Includes oil change, tire rotation, and fluid top-ups.</p>

<p>Price: 99</p>

</div>

<div class="package">

<h3>Advanced Service Package</h3>

<p>Includes basic package services, plus filter replacements.</p>

<p>Price: 149</p>

</div>

<div class="package">

<h3>Premium Service Package</h3>

<p>Includes advanced package services, plus comprehensive inspection.</p>

<p>Price: 249</p>

</div>

<h2>Car Workshop Photographs</h2>

<div class="gallery">

<img src="C:\Users\Vedant\Desktop\CARS\car1.jpg">

<div>

<img src="C:\Users\Vedant\Desktop\CARS\car2.jpg">

</div>

<img src="C:\Users\Vedant\Desktop\CARS\car3.jpg">

</div>

</div>

<h2>Car Accessories</h2>

<div class="gallery">

<img src="C:\Users\Vedant\Desktop\CARS\accessories.jpg" >

<img src="C:\Users\Vedant\Desktop\CARS\accessories2.jpg">

<img src="C:\Users\Vedant\Desktop\CARS\accessories3.jpg">

</div>

</div>

</body>

</html>

5.Write a HTML Script using HTML tags and CSS features for Flower Shop: Using CSS Selectors and Beautification Options show Output with various types of flower images and available stock of flowers in floweriest shop.

<!DOCTYPE html>

<html>

<head>

<title>Flower Shop</title>

<style>

body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

background-color: #f2f2f2;

}

header {

background-color: #333;

color: #fff;

text-align: center;

padding: 10px;

}

.container {

max-width: 800px;

margin: 0 auto;

padding: 20px;

}

.flower {

display: inline-block;

margin: 10px;

text-align: center;

}

.flower img {

max-width: 100%;

height: auto;

}

.stock {

font-size: 16px;

color: #666;

margin-top: 5px;

}

</style>

</head>

<body>

<header>

<h1>Flower Shop</h1>

</header>

<div class="container">

<div class="flower">

<img src="rose.jpg" alt="Rose">

<p class="stock">Stock: 50</p>

</div>

<div class="flower">

<img src="tulip.jpg" alt="Tulip">

<p class="stock">Stock: 30</p>

</div>

<div class="flower">

<img src="daisy.jpg" alt="Daisy">

<p class="stock">Stock: 20</p>

</div>

<div class="flower">

<img src="lily.jpg" alt="Lily">

<p class="stock">Stock: 40</p>

</div>

</div>

</body>

</html>

6. Write a Java Script to accept Two Numbers from User and Print their Addition, Subtraction, Multiplication and Division. Make Use of Prompt function and display result on Browser’s Screen.

<!DOCTYPE html>

<html>

<head>

<title>Calculator</title>

</head>

<body>

<script>

// Accept two numbers from the user

var num1 = parseFloat(prompt("Enter the first number:"));

var num2 = parseFloat(prompt("Enter the second number:"));

// Perform calculations

var addition = num1 + num2;

var subtraction = num1 - num2;

var multiplication = num1 \* num2;

var division = num1 / num2;

// Display results on the screen

document.write("<h2>Calculator Results</h2>");

document.write("First Number: " + num1 + "<br>");

document.write("Second Number: " + num2 + "<br>");

document.write("Addition: " + addition + "<br>");

document.write("Subtraction: " + subtraction + "<br>");

document.write("Multiplication: " + multiplication + "<br>");

document.write("Division: " + division.toFixed(2) + "<br>");

</script>

</body>

</html>

7.Write a Java Script to Accept 3 Number from user using Prompt function and show result as Largest of three on browser’s screen.

<!DOCTYPE html>

<html>

<head>

<title>Largest Number</title>

</head>

<body>

<script>

// Accept three numbers from the user

var num1 = parseFloat(prompt("Enter the first number:"));

var num2 = parseFloat(prompt("Enter the second number:"));

var num3 = parseFloat(prompt("Enter the third number:"));

// Determine the largest number

var largest = num1;

if (num2 > largest) {

largest = num2;

}

if (num3 > largest) {

largest = num3;

}

// Display the largest number on the screen

document.write("<h2>Largest Number</h2>");

document.write("First Number: " + num1 + "<br>");

document.write("Second Number: " + num2 + "<br>");

document.write("Third Number: " + num3 + "<br>");

document.write("The largest number is: " + largest + "<br>");

</script>

</body>

</html>

8. Write a Java script to accept the temperature in Fahrenheit and display result in degree Celsius on browsers screen

<!DOCTYPE html>

<html>

<head>

<title>Fahrenheit to Celsius</title>

</head>

<body>

<script>

// Accept the temperature in Fahrenheit from the user

var fahrenheit = parseFloat(prompt("Enter the temperature in Fahrenheit:"));

// Convert Fahrenheit to Celsius

var celsius = (fahrenheit - 32) \* (5 / 9);

// Display the temperature in Celsius on the screen

document.write("<h2>Temperature Conversion</h2>");

document.write("Temperature in Fahrenheit: " + fahrenheit + " °F<br>");

document.write("Temperature in Celsius: " + celsius.toFixed(2) + " °C<br>");

</script>

</body>

</html>

9. Write a Java Script to display sum of integers for entered numbers on browsers screen (e. g. if users input 10 then result will be 0+1+2+3+4+5+6+7+8+9+10=55)

<!DOCTYPE html>

<html>

<head>

<title>Sum of Integers</title>

</head>

<body>

<script>

// Accept a number from the user

var number = parseInt(prompt("Enter a number:"));

// Calculate the sum of integers

var sum = 0;

for (var i = 0; i <= number; i++) {

sum += i;

}

// Display the sum on the screen

document.write("<h2>Sum of Integers</h2>");

document.write("Entered Number: " + number + "<br>");

document.write("Sum of Integers: " + sum + "<br>");

</script>

</body>

</html>

10.Write a Java Script to display Average of integers for entered numbers on browsers screen (e. g. if users input 10 then result will be [0+1+2+3+4+5+6+7+8+9+10]/11= 5)

<!DOCTYPE html>

<html>

<head>

<title>Average of Integers</title>

</head>

<body>

<script>

// Accept a number from the user

var number = parseInt(prompt("Enter a number:"));

// Calculate the sum of integers and average

var sum = 0;

for (var i = 0; i <= number; i++) {

sum += i;

}

var average = sum / (number + 1);

// Display the average on the screen

document.write("<h2>Average of Integers</h2>");

document.write("Entered Number: " + number + "<br>");

document.write("Average of Integers: " + average.toFixed(2) + "<br>");

</script>

</body>

</html>

11.Write a Java Script to Display Entered Array on Browsers Screen. perform Following operation and show updated content

1. Display Entered Array

2. Display Entered array in Ascending order

3. Push element 25

4. Display Updated Array

5. Print Length of Array

6. Show Element at Position No 3

<!DOCTYPE html>

<html>

<head>

<title>Array Operations</title>

</head>

<body>

<script>

// Accept an array from the user (comma-separated)

var input = prompt("Enter an array of numbers (comma-separated):");

var enteredArray = input.split(',').map(Number);

// Display Entered Array

document.write("<h2>Array Operations</h2>");

document.write("1. Entered Array: " + enteredArray + "<br>");

// Display Entered array in Ascending order

var ascendingArray = enteredArray.slice().sort(function(a, b) { return a - b; });

document.write("2. Entered Array in Ascending Order: " + ascendingArray + "<br>");

// Push element 25

enteredArray.push(25);

// Display Updated Array

document.write("3. Updated Array after Pushing 25: " + enteredArray + "<br>");

// Print Length of Array

document.write("4. Length of Updated Array: " + enteredArray.length + "<br>");

// Show Element at Position No 3

var elementAtPosition3 = enteredArray[2]; // Arrays are 0-based indexed

document.write("5. Element at Position No 3: " + elementAtPosition3 + "<br>");

</script>

</body>

</html>

12. Write a JavaScript code to take inputs from user and display that inputs in following pattern “ Hello ……… Welcome MIT ADT University”

<!DOCTYPE html>

<html>

<head>

<title>Pattern Display</title>

</head>

<body>

<script>

// Accept inputs from the user

var firstName = prompt("Enter your first name:");

var lastName = prompt("Enter your last name:");

// Display the pattern with user inputs

var output = "Hello " + firstName + " " + lastName + " Welcome to MIT UNIVERSITY";

document.write("<h2>Pattern Display</h2>");

document.write(output);

</script>

</body>

</html>

13. Create one button on every click of button different colors should be applied to background. Use of Array is mandatory

<!DOCTYPE html>

<html>

<head>

<title>Background Color Changer</title>

</head>

<body>

<button id="colorButton">Change Background Color</button>

<script>

// Array of colors

var colors = ["red", "blue", "green", "yellow", "purple", "orange", "pink", "cyan"];

// Get the button element

var colorButton = document.getElementById("colorButton");

// Function to change the background color

function changeBackgroundColor() {

var randomIndex = Math.floor(Math.random() \* colors.length);

document.body.style.backgroundColor = colors[randomIndex];

}

// Attach click event to the button

colorButton.addEventListener("click", changeBackgroundColor);

</script>

</body>

</html>

14. Create one button on every click of button different images should be applied. Use of Array is mandatory

<!DOCTYPE html>

<html>

<head>

<title>Image Changer</title>

</head>

<body>

<button id="imageButton">Change Image</button>

<img id="displayedImage" src="default-image.jpg" alt="Displayed Image" width="300">

<script>

// Array of image URLs

var images = [

"image1.jpg",

"image2.jpg",

"image3.jpg",

"image4.jpg",

"image5.jpg"

];

// Get the button and image elements

var imageButton = document.getElementById("imageButton");

var displayedImage = document.getElementById("displayedImage");

// Function to change the displayed image

function changeImage() {

var randomIndex = Math.floor(Math.random() \* images.length);

displayedImage.src = images[randomIndex];

}

// Attach click event to the button

imageButton.addEventListener("click", changeImage);

</script>

</body>

</html>

15. Declare a Javascript String array of colors say colors = [“Red”, “Green”, “Blue”]. Accept a value from the user and add it to the array if the value is not present in the array

<!DOCTYPE html>

<html>

<head>

<title>Color Array</title>

</head>

<body>

<script>

// Declare the initial array of colors

var colors = ["Red", "Green", "Blue"];

// Accept a value from the user

var userInput = prompt("Enter a color:");

// Convert user input to title case (e.g., "red" becomes "Red")

var formattedInput = userInput.charAt(0).toUpperCase() + userInput.slice(1).toLowerCase();

// Check if the color is already in the array

if (!colors.includes(formattedInput)) {

colors.push(formattedInput);

document.write("<h2>Updated Color Array</h2>");

document.write("Colors: " + colors.join(", "));

} else {

document.write("<h2>Color Already Exists</h2>");

document.write("The color '" + formattedInput + "' already exists in the array.");

}

</script>

</body>

</html>

16. Write a JavaScript code to apply font color and background color to Heading from dropdown, if font color and background color is same no changes should be reflected.

<!DOCTYPE html>

<html>

<head>

<title>Color Styling</title>

</head>

<body>

<h1 id="heading">Sample Heading</h1>

<label for="fontColor">Font Color:</label>

<select id="fontColor">

<option value="black">Black</option>

<option value="red">Red</option>

<option value="green">Green</option>

<option value="blue">Blue</option>

</select>

<label for="bgColor">Background Color:</label>

<select id="bgColor">

<option value="white">White</option>

<option value="yellow">Yellow</option>

<option value="pink">Pink</option>

<option value="purple">Purple</option>

</select>

<script>

var heading = document.getElementById("heading");

var fontColorSelect = document.getElementById("fontColor");

var bgColorSelect = document.getElementById("bgColor");

function applyColors() {

var selectedFontColor = fontColorSelect.value;

var selectedBgColor = bgColorSelect.value;

if (selectedFontColor !== selectedBgColor) {

heading.style.color = selectedFontColor;

heading.style.backgroundColor = selectedBgColor;

}

}

fontColorSelect.addEventListener("change", applyColors);

bgColorSelect.addEventListener("change", applyColors);

</script>

</body>

</html>

17. Create an array using JavaScript and display the occurrences of a specific character [For example; A= [‘a, ‘b’, ‘a’, ‘c’, ‘z’] Output should be occurrences of a is 2].

<!DOCTYPE html>

<html>

<head>

<title>Character Occurrences</title>

</head>

<body>

<script>

// Create an array

var array = ['a', 'b', 'a', 'c', 'z'];

// Specify the character to count

var charToCount = 'a';

// Count occurrences of the specified character

var occurrences = 0;

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

if (array[i] === charToCount) {

occurrences++;

}

}

// Display the occurrences of the specified character

document.write("<h2>Character Occurrences</h2>");

document.write("Array: " + array.join(", ") + "<br>");

document.write("Occurrences of '" + charToCount + "': " + occurrences);

</script>

</body>

</html>

18. Write a Javascript code to append static row to the table on click of button.

<!DOCTYPE html>

<html>

<head>

<title>Table Row Appender</title>

</head>

<body>

<table id="myTable" border="1">

<tr>

<th>Name</th>

<th>Age</th>

</tr>

<tr>

<td>John</td>

<td>25</td>

</tr>

<tr>

<td>Jane</td>

<td>30</td>

</tr>

</table>

<button id="addRowButton">Add Row</button>

<script>

var addRowButton = document.getElementById("addRowButton");

var table = document.getElementById("myTable");

addRowButton.addEventListener("click", function() {

var newRow = document.createElement("tr");

var nameCell = document.createElement("td");

var ageCell = document.createElement("td");

nameCell.textContent = "New Name";

ageCell.textContent = "New Age";

newRow.appendChild(nameCell);

newRow.appendChild(ageCell);

table.appendChild(newRow);

});

</script>

</body>

</html>

19. Write a Javascript code to append anchor tag that redirects to the new page

<!DOCTYPE html>

<html>

<head>

<title>Anchor Tag Appender</title>

</head>

<body>

<button id="addAnchorButton">Add Anchor</button>

<script>

var addAnchorButton = document.getElementById("addAnchorButton");

addAnchorButton.addEventListener("click", function() {

var anchorTag = document.createElement("a");

anchorTag.textContent = "Click me to go to the new page";

anchorTag.href = "https://www.example.com"; // Replace with the URL of the new page

anchorTag.target = "\_blank"; // Open link in a new tab

document.body.appendChild(anchorTag);

});

</script>

</body>

</html>

20. Write a Javascript code to change the color of button with following events: 1.Onmouseover 2. Onmouseout 3. Onclick

<!DOCTYPE html>

<html>

<head>

<title>Button Color Changer</title>

</head>

<body>

<button id="colorButton">Change Color</button>

<script>

var colorButton = document.getElementById("colorButton");

colorButton.addEventListener("mouseover", function() {

colorButton.style.backgroundColor = "blue"; // Change color on mouseover

});

colorButton.addEventListener("mouseout", function() {

colorButton.style.backgroundColor = "gray"; // Change color on mouseout

});

colorButton.addEventListener("click", function() {

colorButton.style.backgroundColor = "green"; // Change color on click

});

</script>

</body>

</html>

21. Write a Javascript code to change the background color of page onclick of array elements displayed as a list.

<!DOCTYPE html>

<html>

<head>

<title>Array Elements Color Changer</title>

</head>

<body>

<ul id="arrayList">

<li>Element 1</li>

<li>Element 2</li>

<li>Element 3</li>

<li>Element 4</li>

</ul>

<script>

var arrayList = document.getElementById("arrayList").getElementsByTagName("li");

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

arrayList[i].addEventListener("click", function() {

var colors = ["red", "blue", "green", "yellow", "orange", "purple"];

var randomIndex = Math.floor(Math.random() \* colors.length);

document.body.style.backgroundColor = colors[randomIndex];

});

}

</script>

</body>

</html>

22.Write a Java Script to display Multiplication table of entered values of rows and columns as follows 1 2 3 4 5 2 4 6 8 10 3 6 9 12 15 4 8 12 16 20 5 10 15 20 25

<!DOCTYPE html>

<html>

<head>

<title>Multiplication Table</title>

</head>

<body>

<label for="rows">Enter number of rows:</label>

<input type="number" id="rows" min="1">

<label for="columns">Enter number of columns:</label>

<input type="number" id="columns" min="1">

<button id="generateButton">Generate Table</button>

<div id="tableContainer"></div>

<script>

var generateButton = document.getElementById("generateButton");

var tableContainer = document.getElementById("tableContainer");

generateButton.addEventListener("click", function() {

var rows = parseInt(document.getElementById("rows").value);

var columns = parseInt(document.getElementById("columns").value);

var tableHTML = "<table border='1'>";

for (var i = 1; i <= rows; i++) {

tableHTML += "<tr>";

for (var j = 1; j <= columns; j++) {

tableHTML += "<td>" + (i \* j) + "</td>";

}

tableHTML += "</tr>";

}

tableHTML += "</table>";

tableContainer.innerHTML = tableHTML;

});

</script>

</body>

</html>

23.Write a JavaScript function that checks whether a Entered string is palindrome or not? (Make use of Prompt function to take input)

<!DOCTYPE html>

<html>

<head>

<title>Palindrome Checker</title>

</head>

<body>

<script>

// Function to check if a string is a palindrome

function isPalindrome(str) {

// Remove non-alphanumeric characters and convert to lowercase

var cleanStr = str.replace(/[^a-zA-Z0-9]/g, '').toLowerCase();

// Compare the cleaned string with its reverse

var reversedStr = cleanStr.split('').reverse().join('');

return cleanStr === reversedStr;

}

// Get user input using prompt

var userInput = prompt("Enter a string:");

// Check if the entered string is a palindrome

var result = isPalindrome(userInput) ? "Palindrome" : "Not Palindrome";

// Display the result

alert("The entered string is " + result);

</script>

</body>

</html>

24.Write a JavaScript program to find the area of a triangle where lengths of the three of its sides are 5, 6, 7

<!DOCTYPE html>

<html>

<head>

<title>Triangle Area Calculator</title>

</head>

<body>

<h2>Triangle Area Calculator</h2>

<script>

// Given side lengths

var side1 = 5;

var side2 = 6;

var side3 = 7;

// Calculate the semi-perimeter

var semiPerimeter = (side1 + side2 + side3) / 2;

// Calculate the area using Heron's formula

var area = Math.sqrt(

semiPerimeter \*

(semiPerimeter - side1) \*

(semiPerimeter - side2) \*

(semiPerimeter - side3)

);

// Display the result on the webpage

document.write("Given side lengths: " + side1 + ", " + side2 + ", " + side3 + "<br>");

document.write("The area of the triangle is: " + area.toFixed(2));

</script>

</body>

</html>