//JAVA-1

package vandana.com.org;

import java.util.ArrayList;

import java.util.Arrays;

import java.util.Collections;

import java.util.List;

public class Vjava1 {

public static void main(String[] args) {

Integer[] array = {1, 2, 3, 4, 5, 6, 7};

System.out.println("Given Array: "+Arrays.toString(array));

List<Integer> list = new ArrayList<>();

list=Arrays.asList(array);

Collections.shuffle(list);

System.out.println("Shuffled Array: " + Arrays.toString(list.toArray()));

}

}

//JAVA-2

package vandana.com.org;

import java.util.HashMap;

import java.util.Map;

import java.util.Scanner;

public class Vjava2 {

public static void main(String[] args) {

System.out.println("Enter the roman number: ");

String romanNum=new Scanner(System.in).nextLine();

int result = romanToInt(romanNum);

System.out.println("Integer representation of " + romanNum + " is: " + result);

}

public static int romanToInt(String s) {

Map<Character, Integer> romanMap = new HashMap<>();

romanMap.put('I', 1);

romanMap.put('V', 5);

romanMap.put('X', 10);

romanMap.put('L', 50);

romanMap.put('C', 100);

romanMap.put('D', 500);

romanMap.put('M', 1000);

int num = 0;

int prevValue = 0;

for (int i = s.length() - 1; i >= 0; i--) {

int currValue = romanMap.get(s.charAt(i));

if (currValue < prevValue) {

num -= currValue;

} else {

num += currValue;

}

prevValue = currValue;

}

return num;

}

}

//JAVA-3

package vandana.com.org;

import java.util.Scanner;

public class Vjava3 {

public static void main(String[] args)

{

System.out.println("Enter the input: ");

String input =new Scanner(System.in).nextLine();

boolean isPangram = checkPangram(input);

if(isPangram) System.out.println("The entered input is Pangram");

else System.out.println("The entered input is not a panagram");

}

public static boolean checkPangram(String input) {

boolean[] mark = new boolean[26];

int index;

for (int i = 0; i < input.length(); i++) {

if ('A' <= input.charAt(i) && input.charAt(i) <= 'Z') {

index = input.charAt(i) - 'A';

} else if ('a' <= input.charAt(i) && input.charAt(i) <= 'z') {

index = input.charAt(i) - 'a';

} else {

continue;

}

mark[index] = true;

}

for (int i = 0; i < 26; i++) {

if (!mark[i]) {

return false;

}

}

return true;

}

}

//JavaScript-1

function reverseWords(sentence) {

const words = sentence.split(' ');

const reversedWords = words.map(word => {

const lastChar = word[word.length - 1];

const punctuation = lastChar.match(/[.,!?;'"()]/) ? lastChar : '';

const reversedWord = word.slice(0, -punctuation.length).split('').reverse().join('') + punctuation;

return reversedWord;

});

const reversedSentence = reversedWords.join(' ');

return reversedSentence;

}

//JavaScript-2

const numbers = [5, 2, 9, 1, 5, 6];

const descendingOrder = numbers.sort((a, b) => b - a);

console.log(descendingOrder);

//HTML-1

//html-code

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Calculator</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

<div class="calculator">

<input type="text" id="display" disabled>

<div class="buttons">

<button onclick="appendToDisplay('1')">1</button>

<button onclick="appendToDisplay('2')">2</button>

<button onclick="appendToDisplay('3')">3</button>

<button onclick="appendToDisplay('+')">+</button>

<button onclick="appendToDisplay('4')">4</button>

<button onclick="appendToDisplay('5')">5</button>

<button onclick="appendToDisplay('6')">6</button>

<button onclick="appendToDisplay('-')">-</button>

<button onclick="appendToDisplay('7')">7</button>

<button onclick="appendToDisplay('8')">8</button>

<button onclick="appendToDisplay('9')">9</button>

<button onclick="appendToDisplay('')"></button>

<button onclick="appendToDisplay('0')">0</button>

<button onclick="clearDisplay()">C</button>

<button onclick="calculate()">=</button>

<button onclick="appendToDisplay('/')">/</button>

</div>

</div>

<script src="script.js"></script>

</body>

</html>

//css-code

body {

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

margin: 0;

}

.calculator {

text-align: center;

}

.buttons {

margin-top: 10px;

}

button {

width: 50px;

height: 50px;

font-size: 20px;

margin: 5px;

}

//js-code

function appendToDisplay(value) {

document.getElementById("display").value += value;

}

function clearDisplay() {

document.getElementById("display").value = "";

}

function calculate() {

try {

const result = eval(document.getElementById("display").value);

document.getElementById("display").value = result;

} catch (error) {

document.getElementById("display").value = "Error";

}

}

HTML-2

//html-code

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Survey Form</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

<div class="container">

<h2>Survey Form</h2>

<form id="surveyForm">

<div class="form-group">

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

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

</div>

<div class="form-group">

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

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

</div>

<div class="form-group">

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

<input type="date" id="dob" required>

</div>

<div class="form-group">

<label for="country">Country:</label>

<select id="country" required>

<option value="">Select Country</option>

<option value="USA">USA</option>

<option value="Canada">Canada</option>

<option value="UK">UK</option>

<!-- Add more countries as needed -->

</select>

</div>

<div class="form-group">

<label>Gender:</label>

<label for="male"><input type="checkbox" id="male"> Male</label>

<label for="female"><input type="checkbox" id="female"> Female</label>

</div>

<div class="form-group">

<label for="profession">Profession:</label>

<input type="text" id="profession" required>

</div>

<div class="form-group">

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

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

</div>

<div class="form-group">

<label for="mobile">Mobile Number:</label>

<input type="tel" id="mobile" pattern="[0-9]{10}" required>

</div>

<div class="form-group">

<button type="button" onclick="submitForm()">Submit</button>

<button type="button" onclick="resetForm()">Reset</button>

</div>

</form>

</div>

<div id="popup" class="popup">

<div class="popup-content">

<span class="close" onclick="closePopup()">&times;</span>

<h3>Survey Form Submission</h3>

<div id="popup-content"></div>

</div>

</div>

<script src="script.js"></script>

</body>

</html>

//css-code

body {

font-family: Arial, sans-serif;

}

.container {

max-width: 400px;

margin: 0 auto;

padding: 20px;

border: 1px solid #ccc;

border-radius: 5px;

}

.form-group {

margin-bottom: 15px;

}

button {

background-color: #4CAF50;

color: white;

padding: 10px 20px;

border: none;

border-radius: 5px;

cursor: pointer;

margin-right: 10px;

}

.popup {

display: none;

position: fixed;

top: 0;

left: 0;

width: 100%;

height: 100%;

background: rgba(0, 0, 0, 0.5);

justify-content: center;

align-items: center;

}

.popup-content {

background: white;

padding: 20px;

border-radius: 5px;

text-align: center;

position: relative;

}

.close {

position: absolute;

top: 10px;

right: 20px;

font-size: 24px;

cursor: pointer;

}

//js-code

function submitForm() {

const firstName = document.getElementById("firstName").value;

const lastName = document.getElementById("lastName").value;

const dob = document.getElementById("dob").value;

const country = document.getElementById("country").value;

const maleChecked = document.getElementById("male").checked;

const femaleChecked = document.getElementById("female").checked;

const gender = maleChecked ? "Male" : (femaleChecked ? "Female" : "Not specified");

const profession = document.getElementById("profession").value;

const email = document.getElementById("email").value;

const mobile = document.getElementById("mobile").value;

if (!firstName || !lastName || !dob || !country || (!maleChecked && !femaleChecked) || !profession || !email || !mobile) {

alert("All fields are required!");

return;

}

const popupContent = document.getElementById("popup-content");

popupContent.innerHTML = `

<p><strong>First Name:</strong> ${firstName}</p>

<p><strong>Last Name:</strong> ${lastName}</p>

<p><strong>Date of Birth:</strong> ${dob}</p>

<p><strong>Country:</strong> ${country}</p>

<p><strong>Gender:</strong> ${gender}</p>

<p><strong>Profession:</strong> ${profession}</p>

<p><strong>Email:</strong> ${email}</p>

<p><strong>Mobile Number:</strong> ${mobile}</p>

`;

const popup = document.getElementById("popup");

popup.style.display = "flex";

}

function closePopup() {

const popup = document.getElementById("popup");

popup.style.display = "none";

document.getElementById("surveyForm").reset();

}

function resetForm() {

document.getElementById("surveyForm").reset();

}HTML-2

//html-code

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Survey Form</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

<div class="container">

<h2>Survey Form</h2>

<form id="surveyForm">

<div class="form-group">

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

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

</div>

<div class="form-group">

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

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

</div>

<div class="form-group">

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

<input type="date" id="dob" required>

</div>

<div class="form-group">

<label for="country">Country:</label>

<select id="country" required>

<option value="">Select Country</option>

<option value="USA">USA</option>

<option value="Canada">Canada</option>

<option value="UK">UK</option>

<!-- Add more countries as needed -->

</select>

</div>

<div class="form-group">

<label>Gender:</label>

<label for="male"><input type="checkbox" id="male"> Male</label>

<label for="female"><input type="checkbox" id="female"> Female</label>

</div>

<div class="form-group">

<label for="profession">Profession:</label>

<input type="text" id="profession" required>

</div>

<div class="form-group">

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

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

</div>

<div class="form-group">

<label for="mobile">Mobile Number:</label>

<input type="tel" id="mobile" pattern="[0-9]{10}" required>

</div>

<div class="form-group">

<button type="button" onclick="submitForm()">Submit</button>

<button type="button" onclick="resetForm()">Reset</button>

</div>

</form>

</div>

<div id="popup" class="popup">

<div class="popup-content">

<span class="close" onclick="closePopup()">&times;</span>

<h3>Survey Form Submission</h3>

<div id="popup-content"></div>

</div>

</div>

<script src="script.js"></script>

</body>

</html>

//css-code

body {

font-family: Arial, sans-serif;

}

.container {

max-width: 400px;

margin: 0 auto;

padding: 20px;

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}

.form-group {

margin-bottom: 15px;

}

button {

background-color: #4CAF50;

color: white;

padding: 10px 20px;

border: none;

border-radius: 5px;

cursor: pointer;

margin-right: 10px;

}

.popup {

display: none;

position: fixed;

top: 0;

left: 0;

width: 100%;

height: 100%;

background: rgba(0, 0, 0, 0.5);

justify-content: center;

align-items: center;

}

.popup-content {

background: white;

padding: 20px;

border-radius: 5px;

text-align: center;

position: relative;

}

.close {

position: absolute;

top: 10px;

right: 20px;

font-size: 24px;

cursor: pointer;

}

//js-code

function submitForm() {

const firstName = document.getElementById("firstName").value;

const lastName = document.getElementById("lastName").value;

const dob = document.getElementById("dob").value;

const country = document.getElementById("country").value;

const maleChecked = document.getElementById("male").checked;

const femaleChecked = document.getElementById("female").checked;

const gender = maleChecked ? "Male" : (femaleChecked ? "Female" : "Not specified");

const profession = document.getElementById("profession").value;

const email = document.getElementById("email").value;

const mobile = document.getElementById("mobile").value;

if (!firstName || !lastName || !dob || !country || (!maleChecked && !femaleChecked) || !profession || !email || !mobile) {

alert("All fields are required!");

return;

}

const popupContent = document.getElementById("popup-content");

popupContent.innerHTML = `

<p><strong>First Name:</strong> ${firstName}</p>

<p><strong>Last Name:</strong> ${lastName}</p>

<p><strong>Date of Birth:</strong> ${dob}</p>

<p><strong>Country:</strong> ${country}</p>

<p><strong>Gender:</strong> ${gender}</p>

<p><strong>Profession:</strong> ${profession}</p>

<p><strong>Email:</strong> ${email}</p>

<p><strong>Mobile Number:</strong> ${mobile}</p>

`;

const popup = document.getElementById("popup");

popup.style.display = "flex";

}

function closePopup() {

const popup = document.getElementById("popup");

popup.style.display = "none";

document.getElementById("surveyForm").reset();

}

function resetForm() {

document.getElementById("surveyForm").reset();

}