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BTECH IT

FED Assignment-1

Q1. Design a web page to take input of a candidate's profile using a form. Convert the data in

a properly designed portfolio. Validations and drop down should be proper. Populate Country with state and district, you may limit it to India but all the states and districts should be there in alphabetic order. Use CSS and Java script where required.

Validations:

Mobile number (no special character, should start with 6 or more, length should be 10)

E-mail ID (should have . and @, cannot have more than one @, @ should come before last ".")

First name and last name are a must

Skills should have values related with B.Tech IT only.

Zip/Pin code should be of 6 characters

Profile should have your image, size of image cannot be over 400 KB

❖ HTML Code:-

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      assignment_question_1
    </title>
    <link rel="stylesheet" type="text/css" href="q1.css">
  </head>
  <body>
    <div class="container">
      <form id="profile-form" action="#">
        <h2 id="heading">Candidate Profile Form</h2>
```

```

        <div class="form-group">
            <label for="first-name">First Name:</label>
            <input type="text" id="first-name" name="first-name">
        </div>
        <div class="form-group">
            <label for="middle-name">Middle Name:</label>
            <input type="text" id="middle-name" name="middle-
name">

        </div>
        <div class="form-group">
            <label for="last-name">Last Name:</label>
            <input type="text" id="last-name" name="last-name">
        </div>
        <div class="form-group">
            <label for="email">Email:</label>
            <input type="email" id="email" name="email">
        </div>
        <div class="form-group">
            <label for="phone">Mobile:</label>
            <input type="tel" id="phone" name="phone">
        </div>
        <div class="form-group">
            <label for="country">Country:</label>
            <select id="country" name="country" required>
                <option value="">Select a country</option>
                <option value="India">India</option>
            </select>
        </div>
        <div class="form-group">
            <label for="state">State:</label>
            <select id="state" name="state" required>
                <option value="">Select a state</option>
            </select>
        </div>
        <div class="form-group">
            <label for="district">District:</label>
            <select id="district" name="district" required>
                <option value="">Select a district</option>
            </select>
        </div>
        <div class="form-group">
            <label for="pincode">Pincode:</label>
            <input type="text" id="pincode" name="pincode">
        </div>
        <div class="form-group">
            <label for="skills">Skills:</label>
            <input type="text" id="skills" name="skills"
required>

```

```

        </div>
        <div class="form-group">
            <label for="photo">Upload Photo:</label>
            <input type="file" id="fileInput" required>
        </div>
        <button type="submit">Submit</button>
    </form>
</div>
<div id="portfolio">
</div>

<script src="q1.js"> </script>
</body>
</html>

```

❖ CSS Code:-

```

body {
    font-family: Arial, sans-serif;
    background-color: grey;
}

.form-group {
    margin-bottom: 2px;
}

label {
    display: block;
    margin-bottom: 5px;
}

form {
    text-align: center;
}

.container {
    text-align: center;
    margin: 0 auto;
    padding: 10px;
    border: 2px solid black;
    border-radius: 6px;
    width: 50%;
    background-color: white;
}

input[type="text"],

```

```
input[type="email"],
input[type="tel"],
select {
    padding: 8px;
    border: 1px solid #ccc;
    border-radius: 4px;
    box-sizing: border-box;
    width: 70%;
    font-size: 16px;
}

button[type="submit"] {
    margin-top: 10px;
    margin-top: 10px;
    background-color: #4CAF50;
    color: white;
    padding: 8px 16px;
    border: none;
    border-radius: 4px;
    cursor: pointer;
    font-size: 16px;
}

button:hover {
    background-color: #45a049;
}

#portfolio {
    margin: 0 auto;
    display: none;
    border: 2px solid black;
    border-radius: 6px;
    padding: 10px;
    background-color: white;
    width: 50%;
}

h2 {
    color: cadetblue;
}

#myemail {
    color: blue;
}

img {
    padding: 10px;
    float: right;
```

```
margin-left: 10px;
margin-right: 80px;
height: 150px;
width: 140px;
border-radius: 50%;
}
```

❖ JS Code:-

```
function validateForm()
{
    var firstName = document.getElementById('first-name').value.trim();
    var middleName = document.getElementById('middle-name').value.trim();
    var lastName = document.getElementById('last-name').value.trim();
    var email = document.getElementById('email').value.trim();
    var phone = document.getElementById('phone').value.trim();
    var country = document.getElementById('country').value.trim();
    var state = document.getElementById('state').value.trim();
    var district = document.getElementById('district').value.trim();
    var pincode = document.getElementById('pincode').value.trim();
    var skills = document.getElementById('skills').value.trim();

    if (firstName === '')
    {
        alert('First name is required');
        return false;
    }

    if (lastName === '')
    {
        alert('Last name is required');
        return false;
    }

    if(email === ''){
        alert("Email is required");
        return false;
    }

    if(email.indexOf('@') == -1 || email.lastIndexOf('.') == -1){
        alert("Email is not valid");
        return false;
    }

    if(email.indexOf('@') > email.lastIndexOf('.')){
        alert("Email is not valid");
    }
}
```

```

        return false;
    }

    if(phone[0]<=5 || phone.length != 10){
        alert('Phone is Not Valid')
        return false;
    }

    if(pincod.length != 6){
        alert('Pincode should be 6 digits');
        return false;
    }
    return true;
}

const countryDropdown = document.getElementById("country");
const stateDropdown = document.getElementById("state");
const districtDropdown = document.getElementById("district");

const statesByCountry = {
    "India": [
        "Andaman and Nicobar", "Andhra Pradesh", "Arunachal
Pradesh", "Assam", "Bihar",
        "Chhattisgarh", "Chhattisgarh", "Dadra Nagar Haveli", "Daman Diu", "Delhi",
        "Goa", "Gujarat", "Haryana", "Himachal Pradesh", "Jammu and
Kashmir", "Jharkhand", "Karnataka",
        "Kerala", "Ladakh", "Lakshadweep", "Madhya
Pradesh", "Maharashtra", "Manipur", "Meghalaya",
        "Mizoram", "Nagaland", "Odisha", "Puducherry", "Punjab", "Rajasthan",
        "Sikkim", "Tamil Nadu", "Telangana", "Tripura", "Uttar
Pradesh", "Uttarakhand", "West Bengal "

    ]
};

const districtByState = {
    "Andaman and Nicobar": [
        "Nicobar", "North Middle Andaman", "South Andaman"
    ],
    "Andhra Pradesh": [
        "Anantapur", "Chittoor", "East Godavari", "ALLuri Sitarama Raju",
        "Anakapalli", "Annamaya", "Bapatla", "Eluru", "Guntur", "Kadapa", "Kakinada
",
        "Konaseema", "Krishna", "Kurnool", "Manyam", "N T Rama
Rao", "Nandyal", "Nellore",
        "Palnadu", "Prakasam", "Sri Balaji", "Sri Satya
Sai", "Srikakulam", "Visakhapatnam",
        "Vizianagaram", "West Godavari"
    ],

```

"Arunachal Pradesh": [
 "Anjaw", "Changlang", "Dibang Valley", "East Kameng", "East Siang", "Itanagar Capital Complex",
 "Kamle", "Kra Daadi", "Kurung Kumey", "Lepa Rada", "Lohit", "Longding", "Lower Dibang Valley",
 "Lower Siang", "Lower Subansiri", "Namsai", "Pakke Kessang", "Papum Pare", "Shi Yomi",
 "Siang", "Tawang", "Tirap", "Upper Dibang Valley", "Upper Siang", "Upper Subansiri", "West Kameng",
 "West Siang"
],
 "Assam": [

 "Baksa", "Barpeta", "Biswanath", "Bongaigaon", "Cachar", "Charaideo", "Chirang", "Darrang",
 "Dhemaji", "Dhubri", "Dibrugarh", "Dima Hasao", "Goalpara", "Golaghat", "Hailakandi", "Hojai",
 "Jorhat", "Kamrup", "Kamrup Metropolitan", "Karbi Anglong", "Karimganj", "Kokrajhar",

 "Lakhimpur", "Majuli", "Morigaon", "Nagaon", "Nalbari", "Sivasagar", "Sonitpur", "South Salmara-Mankachar",
 "Tinsukia", "Udalguri", "West Karbi Anglong"
],
 "Bihar": [

 "Araria", "Arwal", "Aurangabad", "Banka", "Begusarai", "Bhagalpur", "Bhojpur", "Buxar",
 "Darbhangha", "East Champaran", "Gaya", "Gopalganj", "Jamui", "Jehanabad", "Kaimur",

 "Katihar", "Khagaria", "Kishanganj", "Lakhisarai", "Madhepura", "Madhubani", "Munger",

 "Muzaffarpur", "Nalanda", "Nawada", "Patna", "Purnia", "Rohtas", "Saharsa", "Samastipur",

 "Saran", "Sheikhpura", "Sheohar", "Sitamarhi", "Siwan", "Supaul", "Vaishali", "West Champaran"
],
 "Chandigarh": [
 "Chandigarh"
],
 "Chhattisgarh": [
 "Balod", "Baloda Bazar", "Balrampur", "Bastar", "Bemetara", "Bijapur", "Bilaspur",
 "Dantewada", "Dhamtari", "Durg", "Gariaband", "Gaurella Pendra Marwahi", "Janjgir-Champa",

"Jashpur", "Kabirdham", "Kanker", "Kondagaon", "Korba", "Koriya", "Mahasamund", "Mungeli",

"Narayanpur", "Raigarh", "Raipur", "Rajnandgaon", "Sukma", "Surajpur", "Surguja"]

"Dadra Nagar Haveli": [

"Dadra Nagar Haveli"

],

"Daman Diu": [

"Daman", "Diu"

],

"Delhi": [

"Central Delhi", "East Delhi", "New Delhi", "North Delhi", "North East Delhi",

"North West Delhi", "Shahdara", "South Delhi", "South East Delhi", "South West Delhi",

"West Delhi"

],

"Goa": [

"North Goa", "South Goa"

],

"Gujarat": [

"Ahmedabad", "Amreli", "Anand", "Aravalli", "Banaskantha", "Bharuch", "Bhavnagar", "Botad", "Chhota Udepur", "Dahod", "Dang", "Devbhoomi

Dwarka", "Gandhinagar",

"Gir

Somnath", "Jamnagar", "Junagadh", "Kheda", "Kutch", "Mahisagar", "Mehsana",

"Morbi", "Narmada", "Navsari", "Panchmahal", "Patan", "Porbandar", "Rajkot",

"Sabarkantha", "Surat", "Surendranagar", "Tapi", "Vadodara", "Valsad"

],

"Haryana": [

"Ambala", "Bhiwani", "Charkhi Dadri", "Faridabad", "Fatehabad", "Gurugram",

"Hisar", "Jhajjar", "Jind", "Kaithal", "Karnal", "Kurukshetra", "Mahendragarh",

"Nuh", "Palwal", "Panchkula", "Panipat", "Rewari", "Rohtak", "Sirsa",

"Sonapat", "Yamunanagar"

],

"Himachal Pradesh": [

"Bilaspur", "Chamba", "Hamirpur", "Kangra", "Kinnaur", "Kullu", "Lahaul and Spiti",

"Mandi", "Shimla", "Sirmaur", "Solan", "Una"

],

"Jammu and Kashmir": [

"Anantnag", "Bandipore", "Baramulla", "Budgam", "Doda", "Ganderbal", "Jammu",

"Kathua", "Kishtwar", "Kulgam", "Kupwara", "Poonch", "Pulwama", "Rajouri",

"Ramban", "Reasi", "Samba", "Shopian", "Srinagar", "Udhampur"
],
"Jharkhand": [
"Bokaro", "Chatra", "Deoghar", "Dhanbad", "Dumka", "East Singhbhum",
"Garhwa", "Giridih", "Godda", "Gumla", "Hazaribagh", "Jamtara", "Khunti",
"Koderma", "Latehar", "Lohardaga", "Pakur", "Palamu", "Ramgarh",
"Ranchi", "Sahibganj", "Seraikela Kharsawan", "Simdega", "West Singhbhum"
],
"Karnataka": [
"Bagalkot", "Bangalore Rural", "Bangalore Urban", "Belgaum", "Bellary",
"Bidar", "Bijapur", "Chamarajanagar", "Chikkaballapura", "Chikmagalur",
"Chitradurga", "Dakshina Kannada", "Davangere", "Dharwad", "Gadag",
"Gulbarga", "Hassan", "Haveri", "Kodagu", "Kolar", "Koppal", "Mandya",
"Mysore", "Raichur", "Ramanagara", "Shimoga", "Tumkur", "Udupi", "Uttara
Kannada",
"Vijayapura", "Yadgir"
],
"Kerala": [

"Alappuzha", "Ernakulam", "Idukki", "Kannur", "Kasaragod", "Kollam", "Kottayam",

"Kozhikode", "Malappuram", "Palakkad", "Pathanamthitta", "Thrissur", "Thiruvanantha
puram",
"Wayanad"
],
"Ladakh": [
"Kargil", "Leh"
],
"Lakshadweep": [

"Agatti", "Amini", "Androth", "Bithra", "Chethlath", "Kavaratti", "Kadmat", "Kalpeni"
,
"Kilthan", "Minicoy"
],
"Madhya Pradesh": [
"Alirajpur", "Anuppur", "Ashok Nagar", "Balaghat", "Barwani", "Betul",
"Bhind", "Bhopal", "Burhanpur", "Chhatarpur", "Chhindwara", "Damoh",

"Datia", "Dewas", "Dhar", "Dindori", "Guna", "Gwalior", "Harda", "Hoshangabad",
"Indore", "Jabalpur", "Jhabua", "Katni", "Khandwa", "Khargone", "Mandla",

"Mandsaur", "Morena", "Narsinghpur", "Neemuch", "Panna", "Raisen", "Rajgarh",
"Ratlam", "Rewa", "Sagar", "Satna", "Sehore", "Seoni", "Shahdol", "Shajapur",

"Sheopur", "Shivpuri", "Sidhi", "Singrauli", "Tikamgarh", "Ujjain", "Umaria",
"Vidisha"
],
"Maharashtra": [

"Ahmednagar", "Akola", "Amravati", "Aurangabad", "Beed", "Bhandara", "Buldhana",
 "Chandrapur", "Dhule", "Gadchiroli", "Gondia", "Hingoli", "Jalgaon", "Jalna",
 "Kolhapur", "Latur", "Mumbai City", "Mumbai Suburban", "Nagpur", "Nanded",
 "Nandurbar", "Nashik", "Osmanabad", "Palghar", "Parbhani", "Pune", "Raigad",
 "Ratnagiri", "Sangli", "Satara", "Sindhudurg", "Solapur", "Thane", "Wardha", "Washim",
 ,
 "Yavatmal"
],
 "Manipur": [
 "Bishnupur", "Chandel", "Churachandpur", "Imphal East", "Imphal
 West", "Jiribam",
 "Kakching", "Kamjong", "Kangpokpi", "Noney", "Pherzawl", "Senapati", "Tamenglong",
 "Tengnoupal", "Thoubal", "Ukhrul"
],
 "Meghalaya": [
 "East Garo Hills", "East Jaintia Hills", "East Khasi Hills", "North Garo
 Hills",
 "Ri Bhoi", "South Garo Hills", "South West Garo Hills", "South West Khasi
 Hills",
 "West Garo Hills", "West Jaintia Hills", "West Khasi Hills"
],
 "Mizoram": [
 "Aizawl", "Champhai", "Kolasib", "Lawngtlai", "Lunglei", "Mamit", "Saiha",
 "Serchhip"
],
 "Nagaland": [
 "Dimapur", "Kiphire", "Kohima", "Longleng", "Mokokchung", "Mon", "Peren", "Phek",
 "Tuensang", "Wokha", "Zunheboto"
],
 "Odisha": [
 "Angul", "Balangir", "Balasore", "Bargarh", "Bhadrak", "Boudh", "Cuttack", "Deogarh",
 "Dhenkanal", "Gajapati", "Ganjam", "Jagatsinghpur", "Jajpur", "Jharsuguda",
 "Kalahandi", "Kandhamal", "Kendrapara", "Kendujhar", "Khordha", "Koraput",
 "Malkangiri", "Mayurbhanj", "Nabarangpur", "Nayagarh", "Nuapada", "Puri", "Rayagada",
 ,
 "Sambalpur", "Sonepur", "Sundargarh"
],
 "Puducherry": [
 "Karaikal", "Mahe", "Puducherry", "Yanam"
],

"Punjab": [
"Amritsar", "Barnala", "Bathinda", "Faridkot", "Fatehgarh
Sahib", "Fazilka",

"Ferozepur", "Gurdaspur", "Hoshiarpur", "Jalandhar", "Kapurthala", "Ludhiana",

"Mansa", "Moga", "Muktsar", "Nawanshahr", "Pathankot", "Patiala", "Rupnagar",
"Sahibzada Ajit Singh Nagar", "Sangrur", "Tarn Taran"
],
"Rajasthan": [

"Ajmer", "Alwar", "Banswara", "Baran", "Barmer", "Bharatpur", "Bhilwara", "Bikaner",

"Bundi", "Chittorgarh", "Churu", "Dausa", "Dholpur", "Dungarpur", "Ganganagar",

"Hanumangarh", "Jaipur", "Jaisalmer", "Jalore", "Jhalawar", "Jhunjhunu", "Jodhpur",
"Karauli", "Kota", "Nagaur", "Pali", "Rajsamand", "Sawai
Madhopur", "Sikar", "Sirohi",
"Tonk", "Udaipur"
],
"Sikkim": [
"East Sikkim", "North Sikkim", "South Sikkim", "West Sikkim"
],
"Tamil Nadu": [

"Ariyalur", "Chengalpattu", "Chennai", "Coimbatore", "Cuddalore", "Dharmapuri",

"Dindigul", "Erode", "Kallakurichi", "Kanchipuram", "Kanyakumari", "Karur", "Krishna
giri",

"Madurai", "Mayiladuthurai", "Nagapattinam", "Namakkal", "Nilgiris", "Perambalur",

"Pudukkottai", "Ramanathapuram", "Ranipet", "Salem", "Sivaganga", "Tenkasi",

"Thanjavur", "Theni", "Thiruvallur", "Thiruvarur", "Thoothukudi", "Tiruchirappalli",
,

"Tirunelveli", "Tirupathur", "Tiruppur", "Tiruvannamalai", "Vellore", "Viluppuram",
"Virudhunagar"
],
"Telangana": [
"Adilabad", "Hyderabad", "Jagitial", "Jangaon", "Jayashankar
Bhoopalpally",
"Jogulamba Gadwal", "Kamareddy", "Karimnagar", "Khammam", "Komaram Bheem",
"Mahabubabad", "Mahabubnagar", "Mancheria", "Medak", "Medchal-
Malkajgiri", "Mulugu",

"Nagarkurnool", "Nalgonda", "Narayanpet", "Nirmal", "Nizamabad", "Peddapalli",

```

    "Rajanna Sircilla", "Ranga
Reddy", "Sangareddy", "Siddipet", "Suryapet", "Vikarabad",
    "Wanaparthi", "Warangal Rural", "Warangal Urban", "Yadadri Bhuvanagiri"
  ],
  "Tripura": [
    "Dhalai", "Gomati", "Khowai", "North Tripura", "Sepahijala", "South
Tripura",
    "Unakoti", "West Tripura"
  ],
  "Uttar Pradesh": [
    "Agra", "Aligarh", "Allahabad", "Ambedkar Nagar", "Amethi",
    "Amroha", "Auraiya", "Azamgarh", "Badaun", "Baghpat", "Bahraich",
    "Ballia", "Balrampur", "Banda", "Bara Banki", "Bareilly",
    "Basti", "Bijnor", "Budaun", "Bulandshahr", "Chandauli",
    "Chitrakoot", "Deoria", "Etah", "Etawah", "Faizabad",
    "Farrukhabad", "Fatehpur", "Firozabad", "Gautam Buddha Nagar",
    "Ghaziabad", "Ghazipur", "Gonda", "Gorakhpur", "Hamirpur",
    "Hapur", "Hardoi", "Hathras", "Jalaun", "Jaunpur",
    "Jhansi", "Kannauj", "Kanpur Dehat", "Kanpur Nagar", "Kasganj",
    "Kaushambi", "Kushinagar", "Lakhimpur Kheri", "Lalitpur", "Lucknow",
    "Maharajganj", "Mahoba", "Mainpuri", "Mathura", "Mau",
    "Meerut", "Mirzapur", "Moradabad", "Muzaffarnagar", "Pilibhit",
    "Pratapgarh", "Raebareilly", "Rampur", "Saharanpur", "Sambhal",
    "Sant Kabir
Nagar", "Shahjahanpur", "Shamli", "Shrawasti", "Siddharthnagar",
    "Sitapur", "Sonbhadra", "Sultanpur", "Unnao", "Varanasi"
  ],
  "Uttarakhand": [
    "Almora", "Bageshwar", "Chamoli", "Champawat", "Dehradun",
    "Haridwar", "Nainital", "Pauri Garhwal", "Pithoragarh", "Rudrapur",
    "Tehri Garhwal", "Udham Singh Nagar", "Uttarkashi"
  ],
  "West Bengal": [
    "Alipurduar", "Bankura", "Birbhum", "Cooch Behar", "Dakshin Dinajpur",
    "Darjeeling", "Hooghly", "Howrah", "Jalpaiguri", "Jhargram",
    "Kalimpong", "Kolkata", "Malda", "Murshidabad", "Nadia",
    "North 24 Parganas", "Paschim Bardhaman", "Paschim Medinipur", "Purba
Bardhaman", "Purba Medinipur",
    "Purulia", "South 24 Parganas", "Uttar Dinajpur"
  ]
}

```

```

countryDropdown.addEventListener("change", () => {
  const selectedCountry = countryDropdown.value;

  if (selectedCountry) {
    const states = statesByCountry[selectedCountry];
    stateDropdown.addEventListener("click", () => {

```

```

const selectedState = stateDropdown.value;
const districts = districtByState[selectedState];

districtDropdown.innerHTML = "";

for (const district of districts) {
  const option = document.createElement("option");
  option.value = district;
  option.text = district;
  districtDropdown.add(option);
}

})

stateDropdown.innerHTML = "";

for (const state of states) {
  const option = document.createElement("option");
  option.value = state;
  option.text = state;
  stateDropdown.add(option);
}

stateDropdown.disabled = false;
}
else
{
  stateDropdown.innerHTML = "";
  districtDropdown.innerHTML = "";
  stateDropdown.disabled = true;
}
});

const form = document.getElementById("profile-form");

form.addEventListener("submit", function(event) {
  event.preventDefault();
  if (!validateForm()) {
    return;
  }

  var firstName = document.getElementById('first-name').value+" ";
  var middleName = document.getElementById('middle-name').value+" ";
  var lastName = document.getElementById('last-name').value;
  var email = document.getElementById('email').value;
  var phone = document.getElementById('phone').value;
  var country = document.getElementById('country').value;
  var state = document.getElementById('state').value;
  var district = document.getElementById('district').value;

```

```
var pincode = document.getElementById('pincode').value;
var skills = document.getElementById('skills').value;
var fileInput = document.getElementById('fileInput');

const formData = {
  fileInput,
  firstName,
  middleName,
  lastName,
  email,
  phone,
  country,
  state,
  district,
  pincode,
  skills
};

displayPortfolio(formData);

});

function displayPortfolio(formData) {
  const form = document.getElementById("profile-form");
  form.style.display = "none";
  const portfolio = document.getElementById("portfolio");
  portfolio.style.display = "block"

  var fileInput = document.getElementById('fileInput');
  var file = fileInput.files[0];
  var reader = new FileReader();
  reader.onload = function() {
    var imageUrl = reader.result;
    var img = document.createElement('img');
    img.src = imageUrl;

    portfolio.appendChild(img);

    var a = document.createElement('a');
    a.href = imageUrl;
    a.download = file.name;
    a.click();
    const nameElement = document.createElement("h2");
    nameElement.setAttribute("id", "myname");
    nameElement.textContent =
formData.firstName+formData.middleName+formData.LastName;

    const emailElement = document.createElement("p");
```

```
emailElement.setAttribute("id", "myemail");
emailElement.textContent = formData.email;

const phoneElement = document.createElement("p");
phoneElement.textContent = formData.phone;

const cityElement = document.createElement("p");
cityElement.textContent = formData.district+",
"+formData.state+", "+formData.country+".";

const pincodeElement = document.createElement("p");
pincodeElement.textContent = formData.pincode;

const skillsElement = document.createElement("p");
skillsElement.innerHTML = "IT Skills: "+formData.skills;

portfolio.appendChild(nameElement);
portfolio.appendChild(emailElement);
portfolio.appendChild(phoneElement);
portfolio.appendChild(cityElement);
portfolio.appendChild(pincodeElement);
portfolio.appendChild(skillsElement);
};
reader.readAsDataURL(file);
}
```

❖ Output:-

Candidate Profile Form

First Name:

Middle Name:

Last Name:

Email:

Mobile:

Country:

Select a country

State:

Select a state

District:

Select a district

Pincode:

Skills:

Upload Photo:

Choose File No file chosen

Submit

Candidate Profile Form

First Name:

Vrinda
Ambala
Bhiwani
Charkhi Dadri
Faridabad
Fatehabad
Gurugram
Hisar
Jhajjar
Jind
Kaithal
Karnal
Kurukshetra
Mahendragarh
Nuh
Palwal
Panchkula
Panipat
Rewari
Rohtak
Sirsa

Ambala

Pincode:

140301

Skills:

Html, CSS, JavaScript, C++, Java, Python, Cloud Computing, Networ

Upload Photo:

Choose File No file chosen

Submit

127.0.0.1:5500 says
Phone is Not Valid

OK

Vrinda

Middle Name:

Last Name:

Gaur

Email:

missvrindagaur@gmail.com

Mobile:

69034247730

Country:

India

State:

Haryana

District:

Ambala

Pincode:

140301

Skills:

Html, CSS, JavaScript, C++, Java, Python, Cloud Computing, Networ

Upload Photo:

Choose File

rundu.jpeg

Submit

Vrinda Gaur


missvrindagaur@gmail.com

9034247730

Ambala, Haryana, India.

136135

IT Skills: Html, CSS, JavaScript, C++, Java, Python, Cloud Computing, Networking.



Q2. Solve the following questions using Java Script.

1) Write a javascript to shuffle an array.

❖ Code:-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>
    assignment_question_2.1
  </title>
</head>
<body>
  <h2>Shuffling an array</h2>

  <script type="text/javascript">
    function shuffle(array){
      for(var i=array.length-1; i>0; i--){
        const j = Math.floor(Math.random()*(i+1));
        [array[i], array[j]] = [array[j], array[i]];
      }
      return array;
    }

    const arr = [1,2,3,4,5,6];
    shuffle(arr);
    document.write(arr);

  </script>

</body>
</html>
```

❖ Output:-

Shuffling an array

5,1,4,2,6,3

2) Write a javascript program to generate a random sting of length n

❖ Code:-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>
    assignment_question_2.2
  </title>
</head>
<body>
  <h2>Generating a random string of length n</h2>

  <script type="text/javascript">
    function generate(n){
      const chars =
"abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ";
      let result = "";
      for(let i =0;i<n;i++){
        const index = Math.floor(Math.random()*chars.length)
        result += chars[index];
      }
      return result;
    }

    const str = generate(10);
    document.write(str);

  </script>
</body>
</html>
```

❖ Output:-

Generating a random string of length n

buXADtAyHq

3) Write a JavaScript to flatten an array

❖ Code:-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>
    assignment_question_2.3
  </title>
</head>
<body>
  <h2> Flatten an array </h2>
  <script>
    const arr = [1,2,[3,4],[5,[6,7]]];
    document.write(JSON.stringify(arr.flat(Infinity)))
  </script>
</body>
</html>
```

❖ Output:-

Flatten an array

[1,2,3,4,5,6,7]

4) find factorial of the given number using javascript

❖ Code:-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>
    assignment_question_2.4
  </title>
</head>
<body>
  <h2>
    Factorial of given number
  </h2>
  <script type="text/javascript">
    function fac(n){
      let temp = n;
      for(let i=temp-1;i>1;i--){
        temp *= i;
      }
      return temp;
    }

    const num = 5;
    document.write("factorial of "+num+":- "+fac(num));

  </script>
</body>
</html>
```

❖ Output:-

Factorial of given number

factorial of 5:- 120

5) Write a javascript to check if the number is prime or not

❖ Code:-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>
    assignment_question_2.5
  </title>
</head>
<body>
  <h2>
    Checking Prime Number
  </h2>
  <script type="text/javascript">
    function isPrime(n){
      if(num<2){
        return document.write(num+" is not a Prime Number");
      }
      for (let i=2;i<=Math.sqrt(n);i++){
        if(n%i==0){
          return document.write(num+" is not a Prime Number");
        }
      }
      return document.write(num+" is a Prime Number");
    }

    const num = 5;
    isPrime(num);

  </script>
</body>
</html>
```

❖ Output:-

Checking Prime Number

5 is a Prime Number

6) Write a Javascript to reverse a string

❖ Code:-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>
    assignment_question_2.6
  </title>
</head>
<body>
  <h2>Reversing a string</h2>

  <script type="text/javascript">
    function rev(s){
      let result = '';
      for(let i=s.length-1;i>=0;i--){
        result += s[i];
      }
      return result;
    }

    const str = "vrinda";
    document.write(rev(str));

  </script>
</body>
</html>
```

❖ Output:-

Reversing a string

adnirv

7) Write a javascript to convert Fahrenheit to Celsius

❖ Code:-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>
    assignment_question_2.7
  </title>
</head>
<body>
  <h2>Fahrenheit to Celsius</h2>

  <script type="text/javascript">
    function convert(f){
      const c = (f-32)*5/9;
      return c;
    }

    const f = 68;
    document.write(f+"&#8457; is equal to "+convert(f)+"&#8451;");

  </script>

</body>
</html>
```

❖ Output:-

Fahrenheit to Celsius

68°F is equal to 20°C

8) write a Javascript to find sum of an Array

❖ Code:-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>
    assignment_question_2.8
  </title>
</head>
<body>
  <h2>Sum of an array</h2>

  <script type="text/javascript">
    function sum(array){
      let sum = 0;
      for(var i=0; i<array.length; i++){
        sum += array[i];
      }
      return sum;
    }

    const arr = [1,2,3,4,5];
    document.write("Sum of array is = "+sum(arr));

  </script>
</body>
</html>
```

❖ Output:-

Sum of an array

Sum of array is = 15