Q1. create an XML file for employee consisting of Emp_no , Emp_name ,Age ,Designation, salary ,and Department. Enter at least 10 records?<?xml version="1.0" encoding="UTF-8"?>

Ans :

```
<Employee>

        <Emp_no>102</Emp_no>

        <Emp_Name>Jane Smith</Emp_Name>

         <Age>28</Age>   <Employee>

        <Emp_no>101</Emp_no>

        <Emp_Name>John Doe</Emp_Name>

        <Age>30</Age>

        <Designation>Software Engineer</Designation>

        <Salary>80000</Salary>

        <Department>IT</Department>

   </Employee>

        <Designation>Marketing Specialist</Designation>

         <Salary>75000</Salary>

         <Department>Marketing</Department>

   </Employee>

   <Employee>

      <Emp_no>103</Emp_no>

      <Emp_Name>Mike Johnson</Emp_Name>

      <Age>35</Age>

      <Designation>Project Manager</Designation>

      <Salary>90000</Salary>

      <Department>IT</Department>

   </Employee>

   <Employee>

      <Emp_no>104</Emp_no>

      <Emp_Name>Sara Williams</Emp_Name>

      <Age>32</Age>
```

```
        <Designation>HR Specialist</Designation>

        <Salary>78000</Salary>

        <Department>HR</Department>

    </Employee>

    <Employee>

        <Emp_no>105</Emp_no>

        <Emp_Name>Chris Evans</Emp_Name>

        <Age>29</Age>

        <Designation>Graphic Designer</Designation>

        <Salary>72000</Salary>

        <Department>Design</Department>

    </Employee>

    <Employee>

        <Emp_no>106</Emp_no>

        <Emp_Name>Lisa Turner</Emp_Name>

        <Age>33</Age>

        <Designation>Finance Analyst</Designation>

        <Salary>85000</Salary>

        <Department>Finance</Department>

    </Employee>

    <Employee>

        <Emp_no>107</Emp_no>

        <Emp_Name>Raj Patel</Emp_Name>

        <Age>31</Age>

        <Designation>Network Engineer</Designation>

        <Salary>82000</Salary>

        <Department>IT</Department>

    </Employee>

    <Employee>

        <Emp_no>108</Emp_no>
```

```
    <Emp_Name>Emily Baker</Emp_Name>

    <Age>27</Age>

    <Designation>Research Analyst</Designation>

    <Salary>76000</Salary>

    <Department>Research</Department>

  </Employee>

  <Employee>

    <Emp_no>109</Emp_no>

    <Emp_Name>Tom Mitchell</Emp_Name>

    <Age>34</Age>

    <Designation>Operations Manager</Designation>

    <Salary>92000</Salary>

    <Department>Operations</Department>

  </Employee>

  <Employee>

    <Emp_no>110</Emp_no>

    <Emp_Name>Amy Turner</Emp_Name>

    <Age>26</Age>

    <Designation>Software Developer</Designation>

    <Salary>79000</Salary>

    <Department>IT</Department>

  </Employee>

</Employees>
```

Q2. Create a Basic calculator with +, -, *, / operations using jQuery events and methods. Take A and B input in Textbox and display the Answer on a label?

Ans :

```html
<!DOCTYPEhtml>

<htmllang="en">

<head>

  <metacharset="UTF-8">

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

  <title>Simple Calculator</title>

  <scriptsrc="WDData/JQuery.min.js"></script>

  <linkrel="stylesheet"href="WDData/Bootstrap/css/bootstrap.min.css">

  <style>

    label {

      font-size: 30px;

      margin-top: 10px;

      color: red;

    }

    button

    {

      color: blue;

      font-size: x-large;

    }

    h2{

      color:black;

      font-size: xx-large;

    }

    body{

      color:black;

      font-size: xx-large;

      background-color: aqua;
```

```html
        }
    </style>
</head>
<body>
    <h2>Simple Calculator</h2>
    <labelfor="numberA">Number A:</label>
    <inputtype="text"id="numberA"placeholder="Enter number A">
    <labelfor="numberB">Number B:</label>
    <inputtype="text"id="numberB"placeholder="Enter number B">
    <br>
    <labelfor="result">Result:</label>
    <spanid="result"></span>
    <br>
    <buttonid="add">+</button>
    <buttonid="subtract">-</button>
    <buttonid="multiply">*</button>
    <buttonid="divide">/</button>
    <script>
        $(document).ready(function(){
            // Add
            $("#add").click(function(){
                calculate("add");
            });
            // Subtract
            $("#subtract").click(function(){
                calculate("subtract");
            });
            // Multiply
            $("#multiply").click(function(){
                calculate("multiply");
```

```
  });
// Divide
$("#divide").click(function(){
   calculate("divide");
});
functioncalculate(operation){
   // Get values from input boxes
   varnumberA = parseFloat($("#numberA").val());
   varnumberB = parseFloat($("#numberB").val());
   // Check if the input is valid
   if(isNaN(numberA) || isNaN(numberB)){
      $("#result").text("Invalid Input");
      return;
   }
   // Perform the selected operation
   switch(operation){
     case"add":
        $("#result").text(numberA + numberB);
        break;
     case"subtract":
        $("#result").text(numberA - numberB);
        break;
     case"multiply":
        $("#result").text(numberA * numberB);
        break;
     case"divide":
       // Check for division by zero
       if(numberB !== 0){
          $("#result").text(numberA / numberB);
       } else {
          $("#result").text("Cannot divide by zero");
```

```
                }
            break;
        default:
            $("#result").text("Invalid Operation");
        }
      }
    });
  </script>
</body>
</html>
```
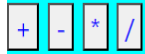
OUTPUT :

Simple Calculator

Number A: 455   Number B: 455

Result: 910

| + | - | * | / |

Q3. Create an HTML Registration form with all basic fields and perform validation using jQuery Events and Effects. Also display proper validation messages in red color and green color.?

Ans :

<!DOCTYPEhtml>

<htmllang="en">

<head>

  <metacharset="UTF-8">

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

  <title>Registration Form</title>

  <scriptsrc="WDData/JQuery.min.js"></script>

  <linkrel="stylesheet"href="WDData/Bootstrap/css/bootstrap.min.css">

  <style>

    label {

      display: block;

      margin-top: 10px;

    }

    .error {

      color: red;

    }

    .success {

      color: green;

    }

    body

    {

      background: url(bac.jpg);

      background-size: 280%;

      background-position: -400px0px;

    }

    div.main

```css
    {
        width: 400px;

        margin: 100pxauto0pxauto;
    }

    h2

    {
        text-align: center;

        padding: 20px;

        font-family: sans-serif;
    }

    div.register

    {
        background-color: (0,0,0,0,5);

        width: 100%;

        font-size: 18px;

        border-radius: 10px;

        border: 1pxsoidrgba(red, green, blue, alpha);

        box-shadow: 2px2px15pxrgba(red, green, blue, alpha);

        color: #fff;
    }

    form#registrationForm

    {
        margin: 40px;
    }

    label

    {
        font-family: sans-serif;

        font-size: 18px;

        font-style: italic;
    }
```

```css
    input
    {
        width: 300px;
        border: 1pxsolid#ddd;
        border-radius: 3px;
        outline: 0;
        padding: 7px;
        background-color: #fff;
        box-shadow: inset1px1px5pxrgba(red, green, blue, alpha);
    }
    button
    {
        width: 200px;
        padding: 7px;
        font-size: 16px;
        font-family: sans-serif;
        font-weight: 600;
        border: none;
        border-radius: 3px;
        background-color:orange;
        color: #fff;
        cursor: pointer;
        border: 1pxsolidrgba(red, green, blue, alpha);
        box-shadow: 1px1px5pxrgba(red, green, blue, alpha);
        margin: 8px;
        margin-right: 40px;
    }
    label,span,h2
    {
        text-shadow: 1px1px5pxrgba(red, green, blue, alpha);
```

```
        }

        span

        {

            padding-top: 7px;

        }

    </style>

</head>

<body>

    <divclass="main">

        <divclass="register">

    <h2>Registration Form</h2>

    <formid="registrationForm">

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

        <inputtype="text"id="firstName"name="firstName"required>

        <spanid="firstNameError"class="error"></span>

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

        <inputtype="text"id="lastName"name="lastName"required>

        <spanid="lastNameError"class="error"></span>

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

        <inputtype="email"id="email"name="email"required>

        <spanid="emailError"class="error"></span>

        <labelfor="password">Password:</label>

        <inputtype="password"id="password"name="password"required>

        <spanid="passwordError"class="error"></span>

        <labelfor="confirmPassword">Confirm Password:</label>

        <inputtype="password"id="confirmPassword"name="confirmPassword"required>

        <spanid="confirmPasswordError"class="error"></span>

        <br>

        <buttontype="submit">Register</button>

         </form>
```

```
    </div>
  </div>
  <spanid="successMessage"class="success"></span>
  <script>
    $(document).ready(function(){
      $("#registrationForm").submit(function(event){
        event.preventDefault();
        // Clear previous error/success messages
        $(".error").text("");
        $("#successMessage").text("");
        // Get input values
        varfirstName = $("#firstName").val();
        varlastName = $("#lastName").val();
        varemail = $("#email").val();
        varpassword = $("#password").val();
        varconfirmPassword = $("#confirmPassword").val();
        // Validate fields
        varisValid = true;
        if (firstName.trim() === "") {
          $("#firstNameError").text("First Name is required").addClass("error");
          isValid = false;
        }
        if (lastName.trim() === "") {
          $("#lastNameError").text("Last Name is required").addClass("error");
          isValid = false;
        }
        if (email.trim() === "" || !isValidEmail(email)) {
          $("#emailError").text("Invalid or empty email address").addClass("error");
          isValid = false;
        }
```
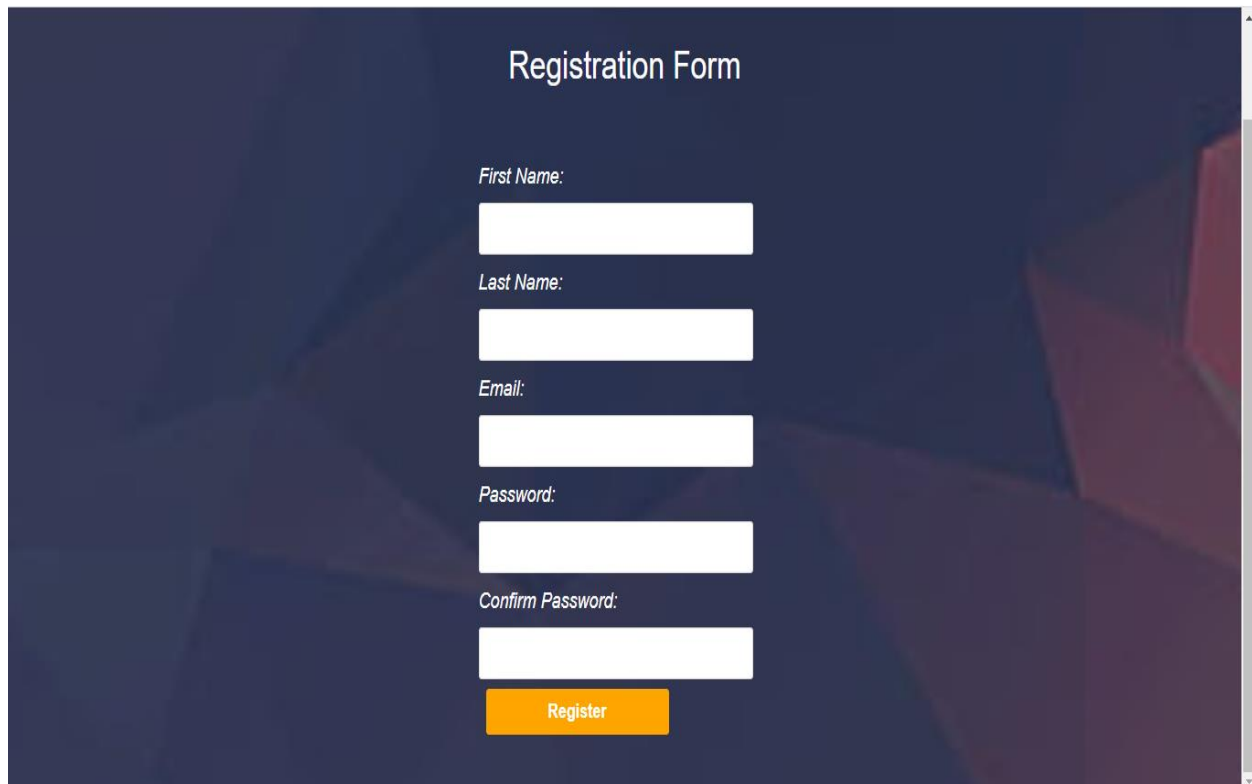
```
        if (password.trim() === "") {

            $("#passwordError").text("Password is required").addClass("error");

            isValid = false;

        }

        if (confirmPassword.trim() === "" || confirmPassword !== password) {

            $("#confirmPasswordError").text("Passwords do not match").addClass("error");

            isValid = false;

        }

        // Display success message if the form is valid

        if (isValid) {

            $("#successMessage").text("Registration successful!").addClass("success");

        }

    });

     // Function to validate email format

    functionisValidEmail(email) {

        varemailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

        returnemailRegex.test(email);

    }

    });

  </script>

</body>

</html>
```

OUTPUT :

Q4 Create an HTML page and apply all jQuery Effects and animation on it.

Ans :

```
<!DOCTYPEhtml>

<htmllang="en">

<head>

    <metacharset="UTF-8">

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

    <title>jQuery Effects and Animation</title>

    <!-- Include jQuery library -->

    <scriptsrc="https://code.jquery.com/jquery-3.6.4.min.js"></script>

    <style>

        /* Add some basic styles */

        body {

            font-family: 'Arial', sans-serif;

            margin: 20px;

            background-color: bisque;

            font-size: larger;

        }

        div {

            width: 200px;

            height: 200px;

            background-color: black;

            color: aliceblue;

            margin: 10px;

            text-align: center;

            line-height: 200px;

        }

        button{

            font-size: xx-large;
```

```
        color: blue;

    }

  </style>

  <script>

    // jQuery document ready function

    $(document).ready(function () {

      // Hide the box initially

      $("#box").hide();

      // Effects and animations

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

        $("#box").show();

      });

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

        $("#box").hide();

      });

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

        $("#box").toggle();

      });

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

        $("#box").fadeIn();

      });

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

        $("#box").fadeOut();

      });

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

        $("#box").slideUp();

      });

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

        $("#box").slideDown();

      });
```

```
        $("#animateBtn").click(function () {

            $("#box").animate({ left:'250px', opacity:'0.5', height:'150px', width:'150px' });

        });

        $("#animateBtn1").click(function () {

            $("#box").animate({ right:'350px',opacity:'1',height:'200px',width:'0px'});

        });

      });

    </script>

</head>

<body>

   <buttonid="showBtn">Show</button>

   <buttonid="hideBtn">Hide</button>

   <buttonid="toggleBtn">Toggle</button>

   <buttonid="fadeInBtn">Fade In</button>

   <buttonid="fadeOutBtn">Fade Out</button>

   <buttonid="slideUpBtn">Slide Up</button>

   <buttonid="slideDownBtn">Slide Down</button>

   <buttonid="animateBtn">Animate</button>

   <buttonid="animateBtn1">Animate</button>

   <divid="box">Hello, jQuery!</div>

</body>

</html>
```

OUTPUT :

5 Create a "E-Commerce website for Electronics" using the following technologies:

 1. HTML and CSS

 2. Bootstrap

3. JQuery and JavaScript

 4. JSON and AJAX

Use these technologies wherever required.

a. Create a Registration page (Perform all validation using jQuery)

b. Create a JSON file for all product Catalogue (includes ProdName,

Price,Image)

 c. Display the Product Catalogue in HTML using jQuery by fetching data from JSON.

 d. Create Product Ordering page where the user can select products to purchase and perform necessary validation.

Ans :

HTML :-

```
<!DOCTYPEhtml>
<htmllang="en">
<head>
  <metacharset="UTF-8">
  <metaname="viewport"content="width=device-width, initial-scale=1.0">
  <title>Electronics E-Commerce</title>
  <linkrel="stylesheet"href="WDData/Bootstrap/css/bootstrap.min.css">
  <scriptsrc="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <scriptsrc="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>
  <scriptsrc="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
  <linkrel="stylesheet"href="styles.css">
  <style>
    section{
            background-color: brown
```

```
      }
      li{
         font-size: large;
         color: black;
      }
      a{
         font-size: x-large;
         color: blue;
      }
      div{
         color: blue;
         padding: 15px;
         width: 300px;
       }
   </style>
</head>
<body>
  <!-- Header -->
  <header>
    <navclass="navbarnavbar-expand-lgnavbar-light bg-light">
      <aclass="navbar-brand"href="#">Electronics E-Commerce</a>
      <buttonclass="navbar-toggler"type="button"data-toggle="collapse"data-target="#navbarNav"
        aria-controls="navbarNav"aria-expanded="false"aria-label="Toggle navigation">
        <spanclass="navbar-toggler-icon"></span>
      </button>
      <divclass="collapse navbar-collapse"id="navbarNav">
        <ulclass="navbar-nav">
          <liclass="nav-item active">
            <aclass="nav-link"href="#">Home</a>
          </li>
```

```html
        <liclass="nav-item">

          <aclass="nav-link"href="#">Products</a>

        </li>

        <liclass="nav-item">

          <aclass="nav-link"href="#">Contact</a>

        </li>

        <liclass="nav-item">

          <aclass="nav-link"href="registration.html">Register</a>

        </li>

      </ul>

    </div>

  </nav>

</header>

<!-- Main Content -->

<main>

  <!-- Product List -->

  <sectionid="product-list">

    <!-- Product List will be loaded here using AJAX -->

  </section>

</main>

<!-- Footer -->

<footer>

  <p>Electronics E-Commerce &copy; 2021</p>

</footer>

<scriptsrc="scripts.js"></script>

</body>

</html>
```

JAVASCRIPTS:-

```javascript
$(document).ready(function() {
  // Load product list using AJAX
  $.ajax({
    url:"products.json",
    method:"GET",
    dataType:"json",
    success:function(data) {
      varproductList="";
      $.each(data, function(index, product) {
        productList+=`
        <div class="row">
          <div class="col-md-4">
            <div class="card">
              <imgsrc="${product.image}" class="card-img-top" alt="${product.name}"  class="img-fluid" style="width:150px;height:100px;">
              <div class="card-body">
                <h5 class="card-title">${product.name}</h5>
                <p class="card-text">${product.description}</p>
                <p class="card-text">Price: $${product.price}</p>
                <a href="#" class="btnbtn-primary">Add to Cart</a>
              </div>
            </div>
          </div>
        </div>
        `;
      });
      $("#Rowdata").html();
      $("#product-list").html(productList);
    },
```

```
    error:function(error) {

      console.log("Error:", error);

    }

  });

});
```

JSON:-

```
[

  {

    "id": 1,

    "name": "Iphone",

    "image":"img/iPhone 14.jpg",

    "description":"iphone 14",

    "price":"150000"

  },

  {

    "id": 2,

    "name": "Iphone",

    "image":"img/iphone 15.jpg",

    "description":"Smartphoneiphone",

    "price":"250000"

  },

  {

    "id": 3,

    "name": "SUMSUNG",

    "image":"img/sumsung s21.jpg",

    "description":"Sumsung s21",

    "price":"160000"

  },

  {

    "id": 4,
```

```
    "name": "SUMSUNG",

    "image":"img/sumsung s23.jpg",

    "description":"Sumsung s23",

    "price":"350000"

  },

  {

    "id": 5,

    "name": "opoo",

    "image":"img/oppo a77.jpg",

    "description":"oppo a77",

    "price":"450000"

  }]
```

a. Create a Registration page (Perform all validation using jQuery)

HTML:-

```
<!DOCTYPEhtml>

<htmllang="en">

<head>

  <metacharset="UTF-8">

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

  <title>Registration Form</title>

  <scriptsrc="WDData/JQuery.min.js"></script>

  <linkrel="stylesheet"href="WDData/Bootstrap/css/bootstrap.min.css">

  <style>

    label {

      display: block;

      margin-top: 10px;

    }

    .error {

      color: red;
```

```css
}
.success {

  color: green;

}

body

{

  background: url(img/back.avif);

  background-size: 200%;

  background-position: -300px5px;

  position: sticky;

}

div.main

{

  width: 300px;

  margin: 100pxauto0pxauto;

}

h2

{

  text-align: center;

  padding: 20px;

  font-family: sans-serif;

}

div.register

{

  background-color: (0,0,0,0,5);

  width: 100%;

  font-size: 18px;

  border-radius: 10px;

  border: 1pxsoidrgba(red, green, blue, alpha);

  box-shadow: 2px2px15pxrgba(red, green, blue, alpha);
```

```css
    color: #fff;

}

form#registrationForm

{

    margin: 40px;

}

label

{

    font-family: sans-serif;

    font-size: 30pxpx;

    font-style: italic;

    color: black;

}

input

{

    width: 300px;

    border: 1pxsolid#ddd;

    border-radius: 3px;

    outline: 0;

    padding: 7px;

    background-color: #fff;

    box-shadow: inset1px1px5pxrgba(red, green, blue, alpha);

}

button

{

    width: 200px;

    padding: 7px;

    font-size: 16px;

    font-family: sans-serif;

    font-weight: 600;
```

```
        border: none;

        border-radius: 3px;

        background-color:orange;

        color: #fff;

        cursor: pointer;

        border: 1pxsolidrgba(red, green, blue, alpha);

        box-shadow: 1px1px5pxrgba(red, green, blue, alpha);

        margin: 8px;

        margin-right: 40px

    }

    label,span,h2

    {

        text-shadow: 1px1px5pxrgba(red, green, blue, alpha);

    }

    span

    {

        padding-top: 7px;

    }

  </style>

</head>

<body>

  <divclass="main">

    <divclass="register">

  <h2>Registration Form</h2>

  <formid="registrationForm">

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

    <inputtype="text"id="firstName"name="firstName"required>

    <spanid="firstNameError"class="error"></span>

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

    <inputtype="text"id="lastName"name="lastName"required>
```

```
<spanid="lastNameError"class="error"></span>

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

<inputtype="email"id="email"name="email"required>

<spanid="emailError"class="error"></span>

<labelfor="password">Password:</label>

<inputtype="password"id="password"name="password"required>

<spanid="passwordError"class="error"></span>

<labelfor="confirmPassword">Confirm Password:</label>

<inputtype="password"id="confirmPassword"name="confirmPassword"required>

<spanid="confirmPasswordError"class="error"></span>

<br>

<buttontype="submit">Register</button>

    </form>

  </div>

</div>

<spanid="successMessage"class="success"></span>

<script>

  $(document).ready(function(){

    $("#registrationForm").submit(function(event){

      event.preventDefault();

      // Clear previous error/success messages

      $(".error").text("");

      $("#successMessage").text("");

      // Get input values

      varfirstName = $("#firstName").val();

      varlastName = $("#lastName").val();

      varemail = $("#email").val();

      varpassword = $("#password").val();

      varconfirmPassword = $("#confirmPassword").val();

      // Validate fields
```

```
      varisValid = true;

      if (firstName.trim() === "") {

         $("#firstNameError").text("First Name is required").addClass("error");

         isValid = false;

      }

      if (lastName.trim() === "") {

         $("#lastNameError").text("Last Name is required").addClass("error");

         isValid = false;

      }

      if (email.trim() === "" || !isValidEmail(email)) {

         $("#emailError").text("Invalid or empty email address").addClass("error");

         isValid = false;

      }

      if (password.trim() === "") {

         $("#passwordError").text("Password is required").addClass("error");

         isValid = false;

      }

      if (confirmPassword.trim() === "" || confirmPassword !== password) {

         $("#confirmPasswordError").text("Passwords do not match").addClass("error");

         isValid = false;

      }

      // Display success message if the form is valid

      if (isValid) {

         $("#successMessage").text("Registration successful!").addClass("success");

      }

   });

   // Function to validate email format

   functionisValidEmail(email) {

      varemailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

      returnemailRegex.test(email);
```

```
        }

    });

  </script>

</body>

</html>
```

b. Create a JSON file for all product Catalogue (includes ProdName, Price,Image)

Ans :

JSON:-

```
[

  {

    "id": 1,

    "name": "Laptop",

    "price": 999.99,

    "image": "image/doctors-3.jpg"

  },

  {

    "id": 2,

    "name": "Smartphone",

    "price": 499.99,

    "image": "image/doctors-2.jpg"

  },

  {

    "id": 3,

    "name": "Headphones",

    "price": 79.99,

    "image": "image/doctors-1.jpg"

  },

  {
```

```json
    "id": 4,

    "name": "Headphones",

    "price": 79.99,

    "image": "image/doctors-1.jpg"

  },

  {

    "id": 5,

    "name": "Headphones",

    "price": 79.99,

    "image": "image/doctors-1.jpg"

  },

  {

    "id": 6,

    "name": "Headphones",

    "price": 79.99,

    "image": "image/doctors-1.jpg"

  }

]
```

c. Display the Product Catalogue in HTML using jQuery by fetching data from JSON.

HTML:-

```html
<!DOCTYPEhtml>

<htmllang="en">

<head>

  <metacharset="UTF-8">

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

  <title>Product Catalog</title>

  <linkrel="stylesheet"href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css">

  <linkrel="stylesheet"href="styles.css">

</head>
```

```
<body>

  <divclass="container">

    <h2>Product Catalog</h2>

    <divid="product-list"></div>

  </div>

  <scriptsrc="https://code.jquery.com/jquery-3.6.4.min.js"></script>

  <scriptsrc="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js"></script>

  <scriptsrc="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/bootstrap.min.js"></script>

  <scriptsrc="product-catalog-script.js"></script>

</body>

</html>
```

jQuery:-

```
$(document).ready(function () {

  $.getJSON('products.json', function (data) {

    constproductList=$('#product-list');

    data.forEach(product=> {

      constproductItem=$('<div class="card mb-3">');

      productItem.html(`

    <div class="card-body">

      <h5 class="card-title">${product.name}</h5>

      <p class="card-text">Price: $${product.price.toFixed(2)}</p>

      <imgsrc="${product.image}" alt="${product.name}" class="img-fluid">

     </div>

    `);

      productList.append(productItem);

    });

  });

});
```
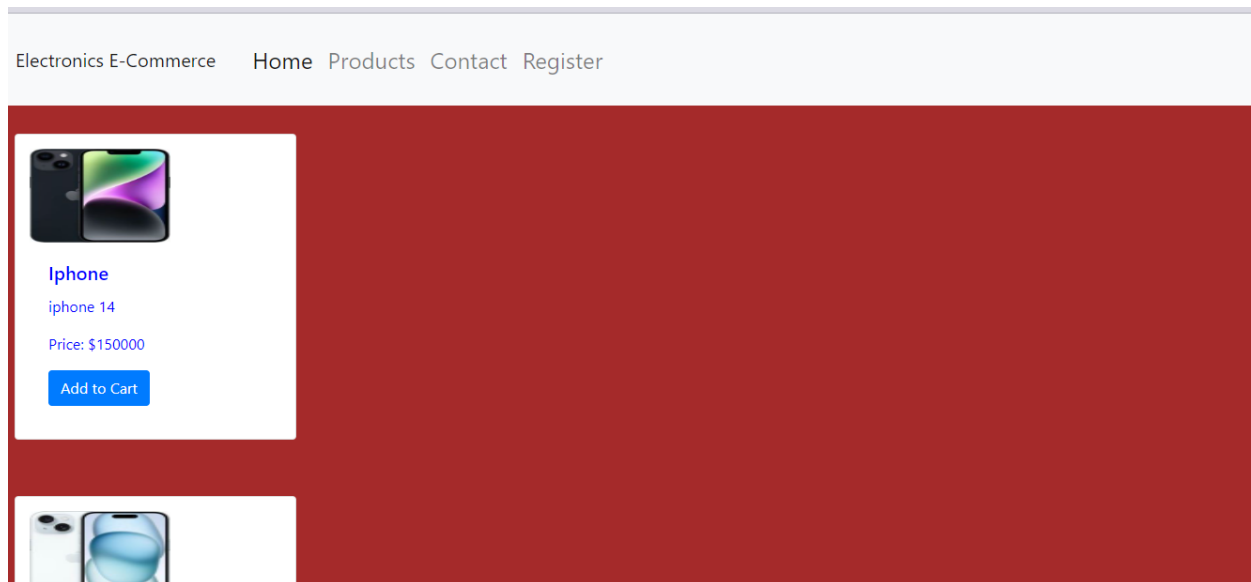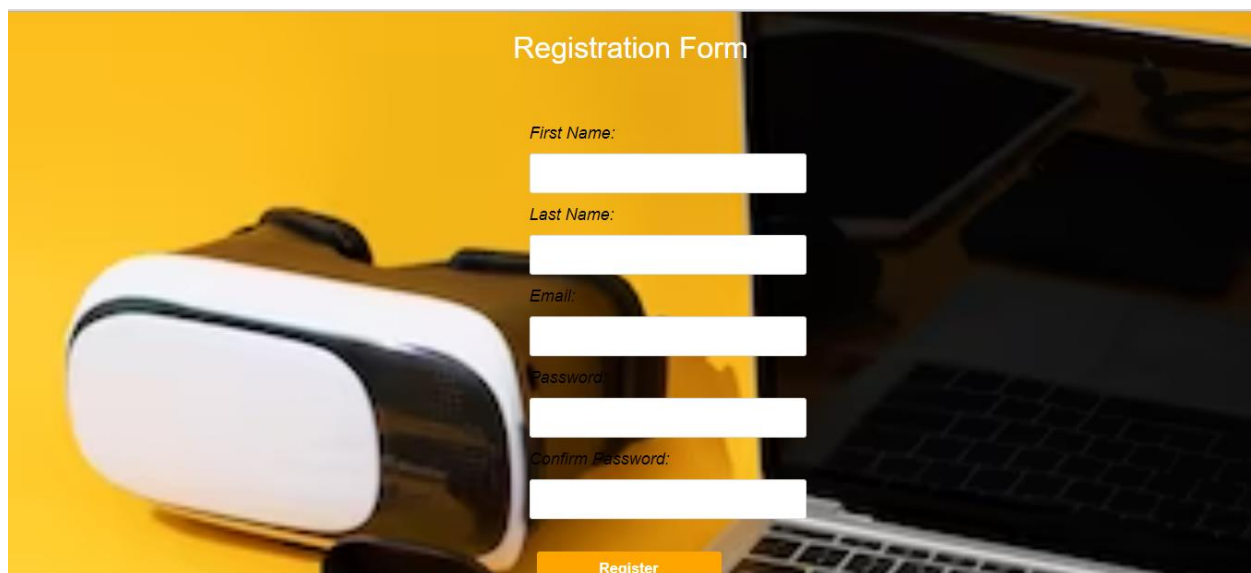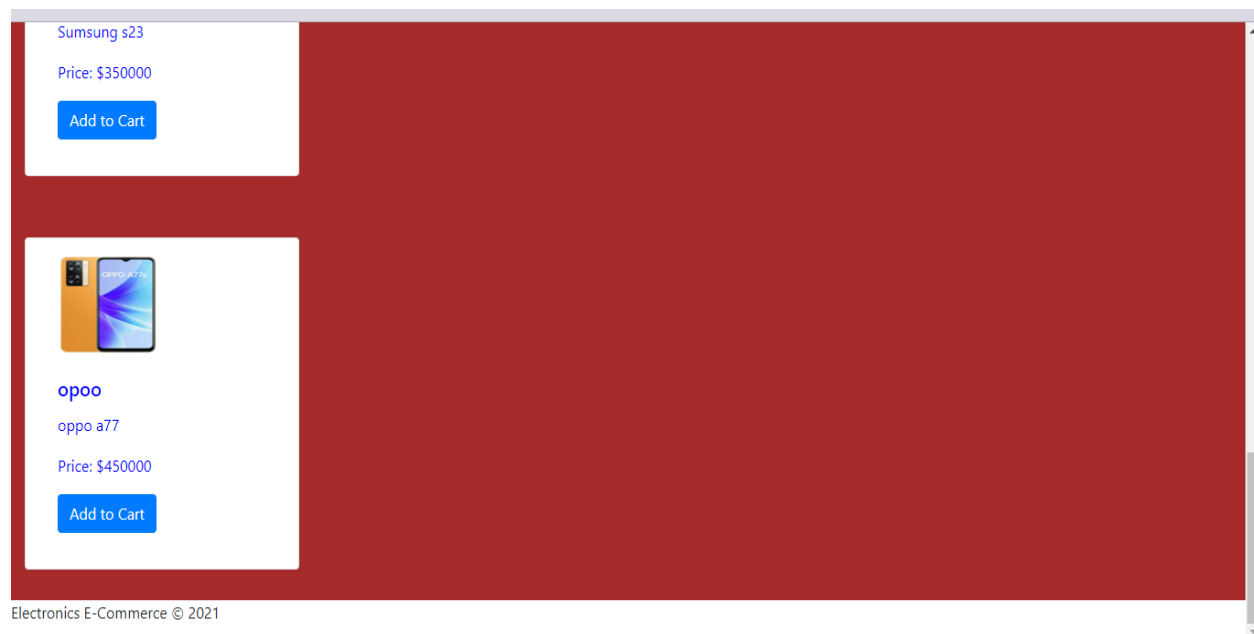
JSON:-

```
[
  {
    "id": 1,
    "name": "Laptop",
    "price": 999.99,
    "image": "image/doctors-3.jpg"
  },
  {
    "id": 2,
    "name": "Smartphone",
    "price": 499.99,
    "image": "image/doctors-2.jpg"
  },
  {
    "id": 3,
    "name": "Headphones",
    "price": 79.99,
    "image": "image/doctors-1.jpg"
  },
  {
    "id": 4,
    "name": "Headphones",
    "price": 79.99,
    "image": "image/doctors-1.jpg"
  },
  {
    "id": 5,
    "name": "Headphones",
    "price": 79.99,
```

```
        "image": "image/doctors-1.jpg"

    },

    {

        "id": 6,

        "name": "Headphones",

        "price": 79.99,

        "image": "image/doctors-1.jpg"

    }

]
```

d. Create Product Ordering page where the user can select products to purchase and perform necessary validation.

Ans :

SUMSUNG

Sumsung s21

Price: $160000

Add to Cart

SUMSUNG

Sumsung s23

Price: $350000

Sumsung s23

Price: $350000

Add to Cart

opoo

oppo a77

Price: $450000

Add to Cart

Electronics E-Commerce © 2021

Registration Form

First Name:

Last Name:

Email:

Password:

Confirm Password:

Register

Q6.Create a JSON file which contains information about various employees (Emp_No, Name, Designation, Salary, Date of Join, Birth Date). Display employee information according to designation entered in the textbox using AJAX.?

Ans :

```html
<!DOCTYPEhtml>

<htmllang="en">

<head>

  <metacharset="UTF-8">

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

  <title>Employee Information</title>

  <linkhref="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"rel="stylesheet">

  <linkrel="stylesheet"href="WDData/Bootstrap/css/bootstrap.min.css">

  <scriptsrc="WDData/JQuery.min.js"></script>

  <style>

    body {

      padding-top: 56px;

    }

    .navbar {

      position: fixed;

      top: 0;

      width: 100%;

      z-index: 1000;

    }

    .employee-info {

      padding: 40px0;

    }

  </style>

</head>

<body>

  <!--Navbar -->
```

```html
<navclass="navbarnavbar-expand-lgnavbar-dark bg-dark">

  <aclass="navbar-brand"href="#">Employee Information</a>

  <buttonclass="navbar-toggler"type="button"data-toggle="collapse"data-target="#navbarNav"aria-controls="navbarNav"aria-expanded="false"aria-label="Toggle navigation">

    <spanclass="navbar-toggler-icon"></span>

  </button>

  <divclass="collapse navbar-collapse"id="navbarNav">

    <ulclass="navbar-nav ml-auto">

      <liclass="nav-item">

        <aclass="nav-link"href="#">Home</a>

      </li>

      <liclass="nav-item">

        <aclass="nav-link"href="#">About</a>

      </li>

      <liclass="nav-item">

        <aclass="nav-link"href="#">Contact</a>

      </li>

    </ul>

  </div>

</nav>

<!-- Employee Information -->

<divclass="container employee-info">

  <h2>Employee Information</h2>

  <labelfor="designationInput">Enter Designation:</label>

  <inputtype="text"id="designationInput"class="form-control">

  <buttonid="getEmployeeInfoBtn"class="btnbtn-primary mt-2">Get Employee Info</button>

  <divid="employeeInfo"class="mt-4">

    <!-- Employee information will be dynamically loaded using AJAX -->

  </div>

</div>
```

```html
<!-- Bootstrap JS and jQuery -->

<scriptsrc="https://code.jquery.com/jquery-3.6.4.min.js"></script>

<scriptsrc="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></script>

<!-- AJAX Script for Fetching Employee Information -->

<script>

  $(document).ready(function(){

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

      vardesignation = $("#designationInput").val();

      // Fetch employee information based on designation using AJAX

      $.ajax({

        url:'employee.json',

        type:'GET',

        dataType:'json',

        success:function(data) {

          varemployeeInfoHTML = '<h3>Employee Information</h3>';

          varfoundEmployees = data.filter(function(employee) {

            returnemployee.Designation === designation;

          });

          if (foundEmployees.length>0) {

            employeeInfoHTML += '<ul>';

            foundEmployees.forEach(function(employee) {

              employeeInfoHTML += '<li>';

              employeeInfoHTML += 'Emp No: ' + employee.Emp_No + '<br>';

              employeeInfoHTML += 'Name: ' + employee.Name + '<br>';

              employeeInfoHTML += 'Designation: ' + employee.Designation + '<br>';

              employeeInfoHTML += 'Salary: $' + employee.Salary + '<br>';

              employeeInfoHTML += 'Date of Join: ' + employee.Date_of_Join + '<br>';

              employeeInfoHTML += 'Birth Date: ' + employee.Birth_Date + '<br>';

              employeeInfoHTML += '</li>';

            });
```

```
                    employeeInfoHTML += '</ul>';

                } else {

                    employeeInfoHTML += '<p>No employees found with the entered designation.</p>';

                }

                // Display the employee information on the page

                $("#employeeInfo").html(employeeInfoHTML);

            },

            error:function(error) {

                console.log('Error loading employee data: ' + error);

            }

        });

    });

    </script>

</body>

</html>
```

Json :

```json
[

  {

    "Emp_No": 1,

    "Name": "John Doe",

    "Designation": "Software Engineer",

    "Salary": 80000,

    "Date_of_Join": "2022-01-15",

    "Birth_Date": "1990-05-20"

  },

  {

    "Emp_No": 2,

    "Name": "Jane Smith",

    "Designation": "Project Manager",
```

```json
  "Salary": 100000,

  "Date_of_Join": "2021-09-10",

  "Birth_Date": "1985-12-12"

 },

 {

  "Emp_No": 3,

  "Name": "Bob Johnson",

  "Designation": "UI/UX Designer",

  "Salary": 75000,

  "Date_of_Join": "2023-03-05",

  "Birth_Date": "1992-08-25"

 },

 {

   "Emp_No": 3,

   "Name": "Bob Johnson",

   "Designation": "UI/UX Designer",

   "Salary": 75000,

   "Date_of_Join": "2023-03-05",

   "Birth_Date": "1992-08-25"

  },

  {

   "Emp_No": 4,

   "Name": "Anshu",

   "Designation": "Software Engineer",

   "Salary": 75000,

   "Date_of_Join": "2023-03-05",

   "Birth_Date": "1992-08-25"

  },

  {

   "Emp_No": 5,
```

```
      "Name": "Chirag",

      "Designation": "Manager",

      "Salary": 75000,

      "Date_of_Join": "2023-03-05",

      "Birth_Date": "1992-08-25"

    },

    {

      "Emp_No": 6,

      "Name": "VIJAY",

      "Designation": "Poen",

      "Salary": 75000,

      "Date_of_Join": "2023-03-05",

      "Birth_Date": "1992-08-25"

    },

    {

      "Emp_No": 7,

      "Name": "RAJ",

      "Designation": "UI/UX Designer",

      "Salary": 75000,

      "Date_of_Join": "2023-03-05",

      "Birth_Date": "1992-08-25"

    },

    {

      "Emp_No": 8,

      "Name": "KUNAL",

      "Designation": "Poen",

      "Salary": 75000,

      "Date_of_Join": "2023-03-05",

      "Birth_Date": "1992-08-25"

    },
```

```json
  {
    "Emp_No": 9,
    "Name": "AMIT",
    "Designation": "Manager",
    "Salary": 75000,
    "Date_of_Join": "2023-03-05",
    "Birth_Date": "1992-08-25"
  },
  {
    "Emp_No": 10,
    "Name": "ABHISHEK",
    "Designation": "Project Manager",
    "Salary": 75000,
    "Date_of_Join": "2021-03-10",
    "Birth_Date": "1997-08-25"
  },
  {
    "Emp_No": 11,
    "Name": "VISHAL",
    "Designation": "UI/UX Designer",
    "Salary": 75000,
    "Date_of_Join": "2022-04-06",
    "Birth_Date": "2000-08-25"
  }
]
```

OUTPUT :