Experiment 10 JavaScript

Question 01

Code:

HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>23BCE1098</title>
 <style>
  body {
   font-family: Arial, sans-serif;
   margin: 20px;
  table {
   width: 50%;
   border-collapse: collapse;
   margin-top: 10px;
  }
  th,
  td {
   border: 1px solid black;
   padding: 8px;
   text-align: left;
  }
  th {
   background-color: #f2f2f2;
  input,
  button {
   margin: 5px;
   padding: 5px;
 </style>
</head>
<body>
 <h2>Hospital Patient Data</h2>
```

```
<h3>(i) Sorted Patient Data (Descending by Age)</h3>
 <button onclick="displaySortedPatients()">Show Sorted Data/button>
 <thead>
   <th>P-Id
    Name
    <th>Age</th>
   </thead>
  <!-- Data will be inserted here dynamically -->
 <h3>(ii) Check if a Patient ID Exists</h3>
 <input type="number" id="searchId" placeholder="Enter P-Id">
 <button onclick="checkPatient()">Check</button>
 <h3>(iii) Filter Patients by Age Range</h3>
 <input type="number" id="minAge" placeholder="Min Age">
 <input type="number" id="maxAge" placeholder="Max Age">
 <button onclick="filterPatients()">Filter</button>
 <thead>
   <th>P-Id</th>
    Name
    <th>Age</th>
   </thead>
  <!-- Filtered data will be inserted here dynamically -->
  <script src="question1.js"></script>
</body>
</html>
JavaScript
const patients = [
 { PId: 1, Name: "Alen", Age: 39 },
 { PId: 2, Name: "Deena", Age: 47 },
 { PId: 3, Name: "Diana", Age: 21 },
 { PId: 4, Name: "Jack", Age: 54 },
 { PId: 5, Name: "Jain", Age: 23 },
 { PId: 6, Name: "Kelvin", Age: 61 },
```

```
{ PId: 7, Name: "Louis", Age: 69 },
 { PId: 8, Name: "Rex", Age: 49 }
];
function sortPatientsByAgeDesc() {
 return patients.slice().sort((a, b) \Rightarrow b.Age - a.Age);
}
function displaySortedPatients() {
 const sortedPatients = sortPatientsByAgeDesc();
 const tableBody = document.querySelector("#patientTable tbody");
 tableBody.innerHTML = "";
 sortedPatients.forEach(patient => {
   const row = ' 
      ${patient.PId}
      ${patient.Name}
      ${patient.Age}
   `;
   tableBody.innerHTML += row;
 });
function isPatientPresent(PId) {
 return patients.some(patient => patient.PId === PId);
}
function checkPatient() {
 const PId = parseInt(document.getElementById("searchId").value);
 const resultText = isPatientPresent(PId)? 'Patient with P-Id ${PId} is present.': 'Patient with P-Id
${PId} is NOT present.';
 document.getElementById("checkResult").textContent = resultText;
function filterPatientsByAge(minAge, maxAge) {
 return patients. filter(patient => patient.Age >= minAge && patient.Age <= maxAge);
}
function filterPatients() {
 const minAge = parseInt(document.getElementById("minAge").value);
 const maxAge = parseInt(document.getElementById("maxAge").value);
 const filteredPatients = filterPatientsByAge(minAge, maxAge);
 const tableBody = document.querySelector("#filteredTable tbody");
 tableBody.innerHTML = "";
 filteredPatients.forEach(patient => {
   const row = '
      ${patient.PId}
```

```
${patient.Name}
${patient.Age}

`;
tableBody.innerHTML += row;
});
```

Output:



Hospital Patient Data

(i) Sorted Patient Data (Descending by Age)

Show Sorted Data

P-Id	Name	Age
7	Louis	69
6	Kelvin	61
4	Jack	54
8	Rex	49
2	Deena	47
1	Alen	39
5	Jain	23
3	Diana	21

(ii) Check if a Patient ID Exists



Patient with P-Id 5 is present.

(iii) Filter Patients by Age Range



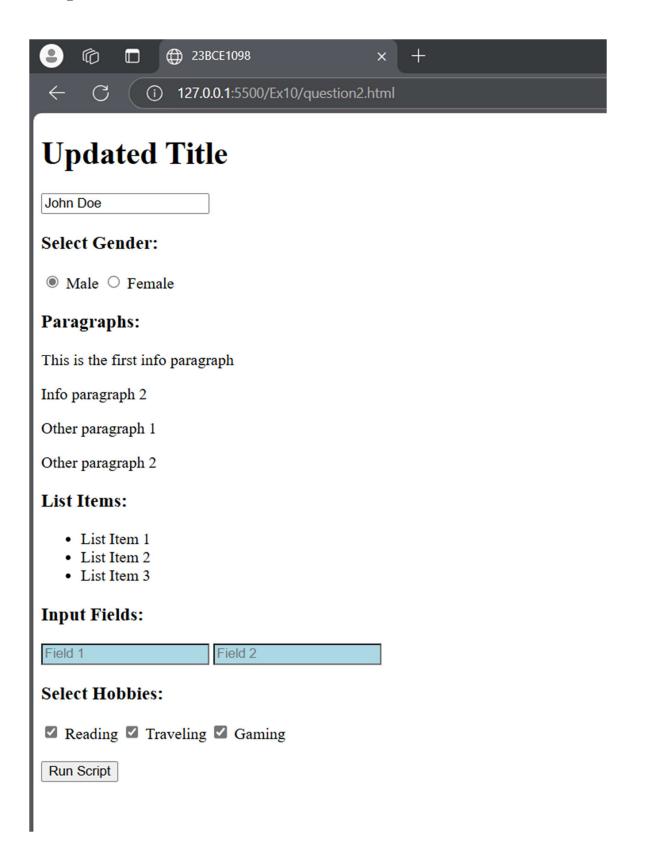
P-ld	Name	Age
1	Alen	39
2	Deena	47
8	Rex	49

Question 02

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>23BCE1098</title>
</head>
<body>
  <h1 id="main-title">Original Title</h1>
  <input type="text" name="username" placeholder="Enter name">
  <h3>Select Gender:</h3>
  <input type="radio" name="gender" value="Male"> Male
  <input type="radio" name="gender" value="Female"> Female
  <h3>Paragraphs:</h3>
  Info paragraph 1
  Info paragraph 2
  Other paragraph 1
  Other paragraph 2
  <h3>List Items:</h3>
  List Item 1
    List Item 2
    List Item 3
  <h3>Input Fields:</h3>
  <input type="text" class="input-field" placeholder="Field 1">
  <input type="text" class="input-field" placeholder="Field 2">
  <h3>Select Hobbies:</h3>
  <input type="checkbox" class="hobby" value="Reading"> Reading
  <input type="checkbox" class="hobby" value="Traveling"> Traveling
  <input type="checkbox" class="hobby" value="Gaming"> Gaming
  <br>><br>>
  <button onclick="executeDOMManipulations()">Run Script</button>
  <script src="question2.js"></script>
</body>
</html>
```

Output:



Question 03

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>23BCE1098</title>
<style rel="stylesheet" href="style.css">
</head>
<body>
 <div class="container">
  <h2>Grocery Order Form</h2>
  <input type="text" id="name" placeholder="Customer Name">
  <input type="text" id="phone" placeholder="Phone Number">
  <input type="email" id="email" placeholder="Email">
  <h3>Products</h3>
  <div class="products">
   <div class="product-item">
src="https://th.bing.com/th/id/OIP.hVjhVt5EiigNSJr1QK93AAHaIJ?rs=1&pid=ImgDetMain"
width="30">
    <label>Apple $10</label>
    <input type="checkbox" class="product" value="Apple,10">
    <input type="number" class="quantity" min="1" max="10" placeholder="kg" disabled>
   </div>
   <div class="product-item">
    <img
src="https://th.bing.com/th/id/OIP.emjzYKViT1SKMALrVmqujQHaE8?rs=1&pid=ImgDetMain"
width="30">
    <label>Banana $5</label>
    <input type="checkbox" class="product" value="Banana,5">
    <input type="number" class="quantity" min="1" max="10" placeholder="kg" disabled>
   </div>
   <div class="product-item">
    <img src="https://th.bing.com/th/id/OIP.MVtMfAGHDYMBIAXKLMk-</pre>
zAHaF4?rs=1&pid=ImgDetMain" width="30">
    <label>Avocado $7</label>
    <input type="checkbox" class="product" value="Avocado,7">
```

```
<input type="number" class="quantity" min="1" max="10" placeholder="kg" disabled>
   </div>
  </div>
  <button class="submit-btn" onclick="submitOrder()">SUBMIT</button>
 </div>
 <script src="question3.js"></script>
</body>
</html>
CSS
    body {
       font-family: Arial, sans-serif;
       background-color: #a0a98f;
       text-align: center;
     }
     .container {
       width: 50%;
       margin: auto;
       background: #79856f;
       padding: 20px;
       border-radius: 10px;
     input, button {
       padding: 10px;
       margin: 5px;
       width: 80%;
     .products {
       text-align: left;
       margin: 10px auto;
       width: 80%;
    .product-item {
       display: flex;
       align-items: center;
       justify-content: space-between;
       margin-bottom: 10px;
     .submit-btn {
       background-color: #b5835a;
       color: white;
       font-weight: bold;
       cursor: pointer;
       border: none;
       width: 50%;
```

JavaScript

```
document.addEventListener("DOMContentLoaded", function () {
 let products = document.querySelectorAll(".product");
 let quantities = document.querySelectorAll(".quantity");
 // Enable quantity input when product is checked
 products.forEach((checkbox, index) => {
   checkbox.addEventListener("change", function () {
      quantities[index].disabled = !this.checked;
      if (!this.checked) {
        quantities[index].value = ""; // Reset value if unchecked
   });
 });
});
function submitOrder() {
 let name = document.getElementById("name").value;
 let phone = document.getElementById("phone").value;
 let email = document.getElementById("email").value;
 let selectedProducts = [];
 let products = document.querySelectorAll(".product");
 let quantities = document.querySelectorAll(".quantity");
 products.forEach((checkbox, index) => {
   if (checkbox.checked) {
      let [productName, price] = checkbox.value.split(",");
      let quantity = quantities[index].value;
      selectedProducts.push({ name: productName, price: price, quantity: quantity });
   }
 });
 let orderDetails = {
   name: name,
   phone: phone,
   email: email,
   products: selectedProducts
 };
 // Store order details in localStorage
 localStorage.setItem("order", JSON.stringify(orderDetails));
 // Redirect to receipt page
 window.location.href = "receipt.html";
}
```

Receipt.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Order Receipt</title>
  <style>
    body {
       font-family: Arial, sans-serif;
       background-color: #f4f4f4;
       text-align: center;
    .container {
       width: 50%;
       margin: auto;
       background: white;
       padding: 20px;
       border-radius: 10px;
       box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    }
    .product-list {
       text-align: left;
       margin-top: 10px;
  </style>
</head>
<body>
  <div class="container">
    <h2>Order Receipt</h2>
    <strong>Name:</strong> <span id="customer-name"></span>
    <strong>Phone:</strong> <span id="customer-phone"></span>
    <strong>Email:</strong> <span id="customer-email"></span>
    <h3>Products Ordered:</h3>
    <div class="product-list" id="product-list"></div>
    <h3>Total Cost: $<span id="total-cost">0</span></h3>
  </div>
  <script>
    document.addEventListener("DOMContentLoaded", function () {
       let order = JSON.parse(localStorage.getItem("order"));
```

```
if (order) {
         document.getElementById("customer-name").textContent = order.name;
         document.getElementById("customer-phone").textContent = order.phone;
         document.getElementById("customer-email").textContent = order.email;
         let productList = document.getElementById("product-list");
         let totalCost = 0;
         order.products.forEach(product => {
            let item = document.createElement("p");
           let cost = product.price * product.quantity;
            item.textContent = `${product.name} - ${product.quantity}kg @ $${product.price}/kg
= $${cost}';
            productList.appendChild(item);
            totalCost += cost;
         });
         document.getElementById("total-cost").textContent = totalCost;
    });
  </script>
</body>
</html>
```

Output:

