# **Name: Abdurrahman Qureshi**

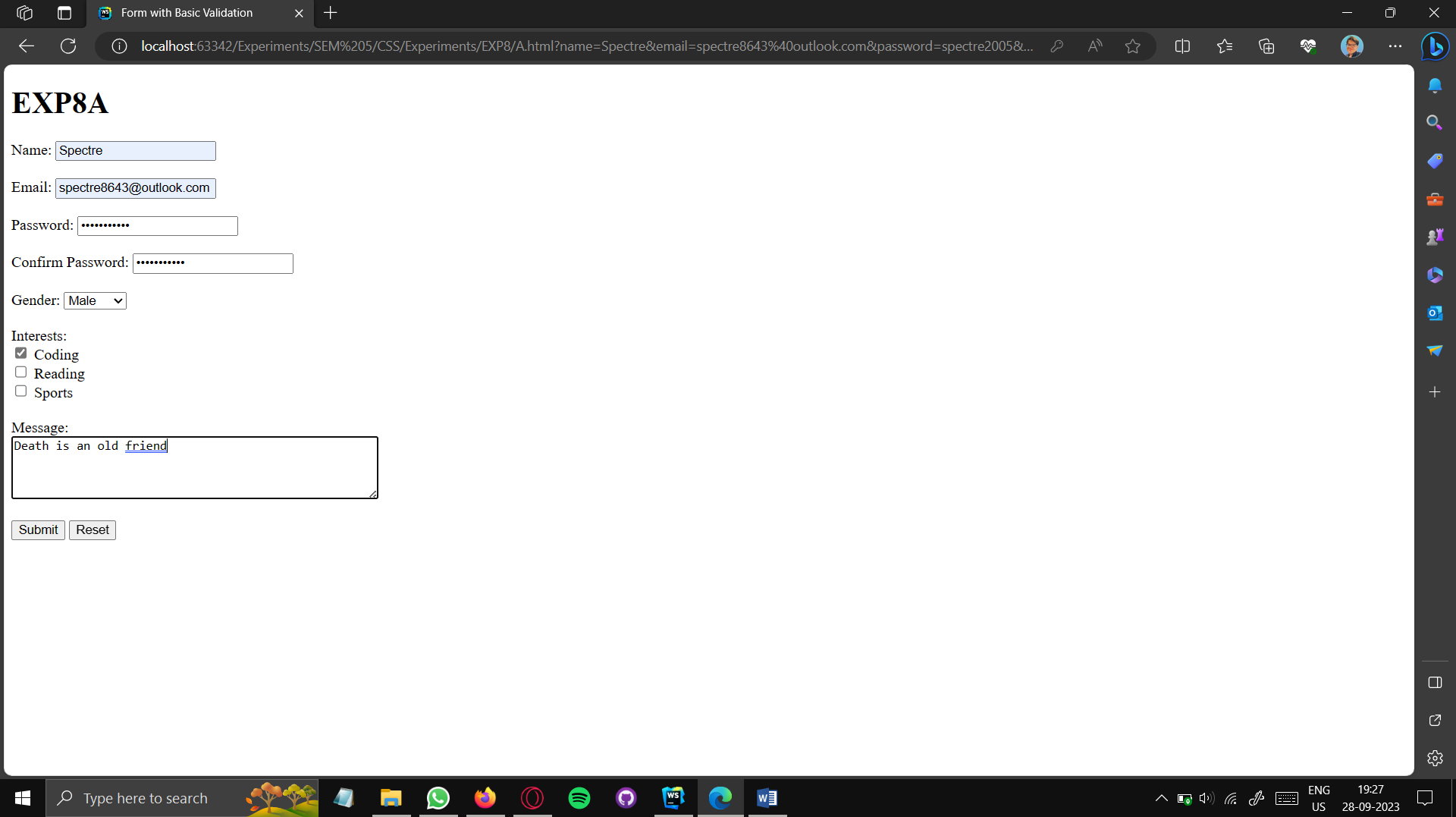
# **Roll No: 210451**

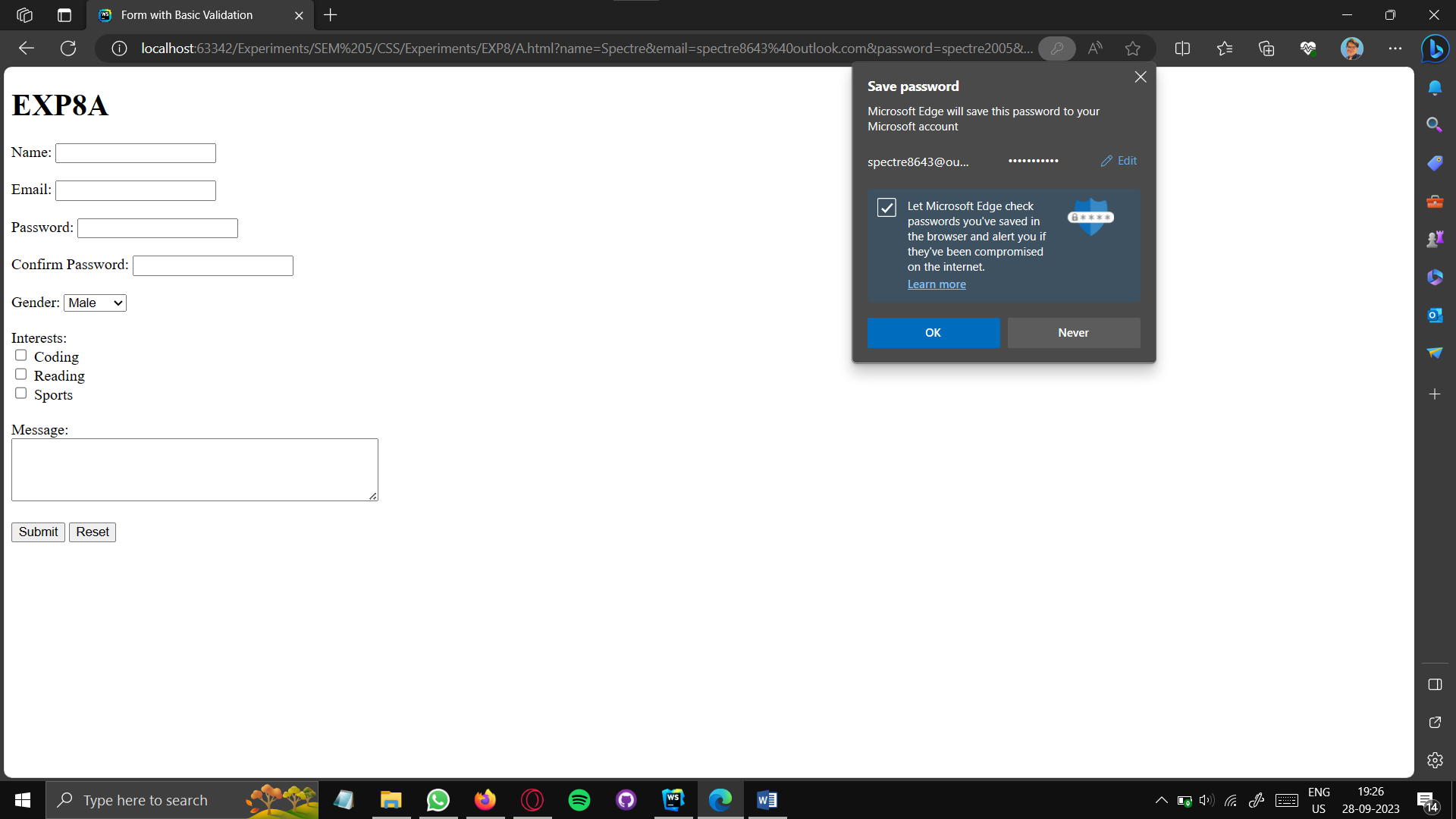
Practical No: 8

**1) Write a program to create a form with all HTML elements and perform basic validation on it.**

**CODE:**

<!DOCTYPE html>  
<html>  
<head>  
 <title>Form with Basic Validation</title>  
</head>  
<body>  
<h1>EXP8A</h1>  
<form id="myForm" onsubmit="return validateForm()">  
 <label for="name">Name:</label>  
 <input type="text" id="name" name="name" required><br><br>  
  
 <label for="email">Email:</label>  
 <input type="email" id="email" name="email" required><br><br>  
  
 <label for="password">Password:</label>  
 <input type="password" id="password" name="password" required><br><br>  
  
 <label for="confirmPassword">Confirm Password:</label>  
 <input type="password" id="confirmPassword" name="confirmPassword" required><br><br>  
  
 <label for="gender">Gender:</label>  
 <select id="gender" name="gender">  
 <option value="male">Male</option>  
 <option value="female">Female</option>  
 <option value="other">Other</option>  
 </select><br><br>  
  
 <label>Interests:</label><br>  
 <input type="checkbox" id="coding" name="interests[]" value="coding">  
 <label for="coding">Coding</label><br>  
 <input type="checkbox" id="reading" name="interests[]" value="reading">  
 <label for="reading">Reading</label><br>  
 <input type="checkbox" id="sports" name="interests[]" value="sports">  
 <label for="sports">Sports</label><br><br>  
  
 <label for="message">Message:</label><br>  
 <textarea id="message" name="message" rows="4" cols="50"></textarea><br><br>  
  
 <input type="submit" value="Submit">  
 <input type="reset" value="Reset">  
</form>  
  
<p id="errorOutput"></p>  
  
<script>  
 function validateForm() {  
 const name = ***document***.getElementById("name").value;  
 const email = ***document***.getElementById("email").value;  
 const password = ***document***.getElementById("password").value;  
 const confirmPassword = ***document***.getElementById("confirmPassword").value;   
 if (name === "" || email === "" || password === "" || confirmPassword === "") {  
***document***.getElementById("errorOutput").textContent = "All fields are required.";  
 return false;  
 }  
  
 const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;  
 if (!email.match(emailRegex)) {  
 ***document***.getElementById("errorOutput").textContent = "Invalid email format.";  
 return false;  
 }  
  
 if (password.length < 6) {  
 ***document***.getElementById("errorOutput").textContent = "Password must be at least 6 characters.";  
 return false;  
 }  
  
 if (password !== confirmPassword) {  
 ***document***.getElementById("errorOutput").textContent = "Passwords do not match.";  
 return false;  
 }  
 return true;  
 }  
</script>  
</body>  
</html>

**OUTPUT: **

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**2) Write a program to change option list dynamically.**

**CODE:**

<!DOCTYPE html>  
<html>  
<head>  
 <title>EXP8B</title>  
</head>  
<body>  
<h1>EXP8B</h1>  
<label for="category">Select a Category:</label>  
<select id="category">  
 <option value="fruits">Fruits</option>  
 <option value="vegetables">Vegetables</option>  
</select>  
<label for="item">Select an Item:</label>  
<select id="item">  
</select>  
<script>  
 const ***options*** = {  
 fruits: ["Apple", "Banana", "Orange", "Mango"],  
 vegetables: ["Carrot", "Broccoli", "Spinach", "Potato"]  
 };  
 function populateItems() {  
 const categorySelect = ***document***.getElementById("category");  
 const itemSelect = ***document***.getElementById("item");  
 const selectedCategory = categorySelect.value;  
  
 itemSelect.innerHTML = "";  
  
 ***options***[selectedCategory].forEach(function(optionText) {  
 const option = ***document***.createElement("option");  
 option.value = optionText;  
 option.text = optionText;  
 itemSelect.appendChild(option);  
 });  
 }  
 populateItems();const ***categorySelect*** = ***document***.getElementById("category");  
 ***categorySelect***.addEventListener("change", populateItems);  
</script>  
</body>  
</html>

**OUTPUT:**

