

1. Create html pages for website like login, registration and about us pages
2. Apply and design the created HTML pages using CSS
3. Write a program demonstrating javascript functions and different validations
4. Write a program to read and write HTML contents with JQuery
5. Create a simple Testing Angular application
6. Write a program demonstrating NodeJs application
7. Write a program to create, modify and delete the contents using Postman.

**<!--Program no:1:Create html pages for website like login, registration and about us pages-->**

```
<html>
<h1>About Us</h1>
<p>Welcome to DYPCET</p>
<form name="f1" method="post" action="login.php" id="f1">
<table>
<tr>
<td class="f1_label">User Name:</td><td><input type="text" name="username"
value=""/>
</td>
</tr>
<tr>
<td class="f1_label">Password:</td><td>
<input type="password" name="password" value=""/>
</td>
</tr>
<tr>
<td>
<input type="submit" name="login" value="Log In" style="font-size:18px;"/>
</td>
</tr>
</table>
</form>
</html>
```

**<!--Expt no:02:-Apply and design the created HTML pages using CSS-->**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Registration Page</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #3ead3b;
      margin: 0;
      padding: 0;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
    }

    .container {
      background-color: #fff;
      border-radius: 5px;
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);
      padding: 20px;
      width: 300px;
    }

    .container h2 {
      text-align: center;
    }

    .form-group {
      margin-bottom: 15px;
    }

    .form-group label {
      display: block;
      font-weight: bold;
    }
```

```

.form-group input[type="text"],
.form-group input[type="password"] {
    width: 100%;
    padding: 10px;
    border: 1px solid #ccc;
    border-radius: 5px;
}

.form-group input[type="submit"] {
    background-color: #007bff;
    color: #fff;
    padding: 10px 15px;
    border: none;
    border-radius: 5px;
    cursor: pointer;
    font-weight: bold;
    transition: background-color 0.3s;
}

.form-group input[type="submit"]:hover {
    background-color: #0056b3;
}
</style>
</head>
<body>
<div class="container">
<h2>Registration</h2>
<form action="#" method="post">
<div class="form-group">
<label for="username">Username:</label>
<input type="text" id="username" name="username" required>
</div>
<div class="form-group">
<label for="password">Password:</label>
<input type="password" id="password" name="password" required>
</div>
<div class="form-group">
<input type="submit" value="Register">
</div>
</form>

```

```
    </div>
</body>
</html>
```

### 3. Write a program demonstrating javascript functions and different validations

```
<!DOCTYPE html>
<html>
<head>
  <title>Form Validation</title>
</head>
<body>
  <h1>Registration Form</h1>
  <form id="registrationForm" onsubmit="return validateForm()">
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" required><br>

    <label for="email">Email:</label>
    <input type="email" id="email" name="email" required><br>

    <label for="password">Password:</label>
    <input type="password" id="password" name="password" required><br>

    <label for="phone">Phone Number:</label>
    <input type="tel" id="phone" name="phone" required><br>

    <input type="submit" value="Register">
  </form>

  <script>
    function validateForm() {
      // Get form input values
      const name = document.getElementById("name").value;
      const email = document.getElementById("email").value;
      const password = document.getElementById("password").value;
      const phone = document.getElementById("phone").value;

      // Regular expressions for validation
      const nameRegex = /^[a-zA-Z ]{2,30}$/;
```

```
const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
const passwordRegex = /^(?=.*\d)(?=.*[a-z])(?=.*[A-Z]).{6,20}$/;
const phoneRegex = /^\d{10}$/;

// Validate name
if (!name.match(nameRegex)) {
    alert("Please enter a valid name.");
    return false;
}

// Validate email
if (!email.match(emailRegex)) {
    alert("Please enter a valid email address.");
    return false;
}

// Validate password
if (!password.match(passwordRegex)) {
    alert("Password must be 6-20 characters with at least one uppercase letter, one lowercase letter, and one digit.");
    return false;
}

// Validate phone number
if (!phone.match(phoneRegex)) {
    alert("Please enter a valid 10-digit phone number.");
    return false;
}

// Form is valid
alert("Registration successful!");
return true;
}
</script>
</body>
</html>
```

#### 4. Write a program to read and write HTML contents with JQuery

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Read and Write HTML with jQuery</title>
  <!-- Include jQuery from a CDN -->
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>
  <div id="content">
    <h1>Welcome to DYP CET</h1>
    <p>This is a simple example.</p>
  </div>

  <button id="readButton">Read Content</button>
  <button id="writeButton">Write Content</button>

  <script>
    // Wait for the document to be ready
    $(document).ready(function() {
      // Read HTML content
      $("#readButton").click(function() {
        // Get the HTML content of the element with id "content"
        var htmlContent = $("#content").html();
        alert("HTML Content:\n" + htmlContent);
      });

      // Write HTML content
      $("#writeButton").click(function() {
        // Create new HTML content
        var newContent = "<h2>New Content</h2><p>This is the updated content:-We are students of BTech CSE(AIML).</p>";
        // Set the HTML content of the element with id "content" to the new content
        $("#content").html(newContent);
      });
    });
  </script>
</body>
</html>
```

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

Write a program demonstrating NodeJs application

```
http.createServer(function (request, response) {
  // Send the HTTP header
  // HTTP Status: 200 : OK
  // Content Type: text/plain
  response.writeHead(200, { '&#39;Content-Type&#39;:
    '&#39;text/plain&#39;});

  // Send the response body as 'Hello World'
  response.end('&#39;Hello World\n&#39;);
}).listen(8081);

// Console will print the message
console.log('&#39;Server running at http://127.0.0.1:8081/&#39;);
```

7.For postman testing link

<https://reqres.in/>