

Exp – 1: Demonstrate Deploying an Application to GitHub

- **Deploy and generate url for CGPA calculation till 6th semester using html in GitHub**

Step 1: Create a GitHub Repository

1. **Go to GitHub** and log in to your account.
2. **Click on the "+" icon** at the top right corner and select "New repository."
3. **Name the repository** (e.g., cgpa-calculator), add a description if desired, and choose "Public."
4. **Click on "Create repository."**

Step 2: Add the HTML File

1. In your new repository, click on "Add file" and select "Create new file."
2. **Name the file** index.html.
3. Copy and paste the following HTML code into the editor:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>CGPA Calculator</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 20px;
    }
    label, input {
      display: block;
      margin: 10px 0;
    }
    button {
      margin: 10px 0;
    }
    #result {
      font-weight: bold;
    }
  </style>
</head>
<body>
  <h1>CGPA Calculator</h1>
  <form id="cgpaForm">
    <label for="gpa1">GPA for Semester 1:</label>
    <input type="number" id="gpa1" name="gpa1" step="0.01" min="0" max="10" required>
    <label for="gpa2">GPA for Semester 2:</label>
    <input type="number" id="gpa2" name="gpa2" step="0.01" min="0" max="10" required>

    <label for="gpa3">GPA for Semester 3:</label>
    <input type="number" id="gpa3" name="gpa3" step="0.01" min="0" max="10" required>

    <label for="gpa4">GPA for Semester 4:</label>
    <input type="number" id="gpa4" name="gpa4" step="0.01" min="0" max="10" required>
```

```
<label for="gpa5">GPA for Semester 5:</label>
<input type="number" id="gpa5" name="gpa5" step="0.01" min="0" max="10" required>

<label for="gpa6">GPA for Semester 6:</label>
<input type="number" id="gpa6" name="gpa6" step="0.01" min="0" max="10" required>

<button type="button" onclick="calculateCGPA()">Calculate CGPA</button>
</form>
<h2>Overall CGPA: <span id="result"></span></h2>

<script>
function calculateCGPA() {
    var gpa1 = parseFloat(document.getElementById('gpa1').value);
    var gpa2 = parseFloat(document.getElementById('gpa2').value);
    var gpa3 = parseFloat(document.getElementById('gpa3').value);
    var gpa4 = parseFloat(document.getElementById('gpa4').value);
    var gpa5 = parseFloat(document.getElementById('gpa5').value);
    var gpa6 = parseFloat(document.getElementById('gpa6').value);

    var totalGPA = gpa1 + gpa2 + gpa3 + gpa4 + gpa5 + gpa6;
    var cgpa = totalGPA / 6;

    document.getElementById('result').innerText = cgpa.toFixed(2);
}
</script>
</body>
</html>
```

4. **Scroll down** and click "Commit new file."

Step 3: Enable GitHub Pages

1. Go to the repository's "**Settings**" tab.
2. Scroll down to the "**Pages**" section (or find "Pages" in the left sidebar).
3. Under "**Source**," select the main branch and the / (root) directory.
4. **Click "Save."**

Step 4: Access Your Deployed Page

1. After a few moments, your page will be available at <https://<your-username>.github.io/<repository-name>/>.
 - For example: <https://your-username.github.io/cgpa-calculator/>

You can now share or access this URL to use your CGPA calculator online!