

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Biodata Form</title>
    <link rel="stylesheet" href="style.css"> <!-- Linking CSS -->
</head>
<body>
    <div class="container">
        <h2>Biodata Form</h2>
        <form>
            <label for="name">Full Name:</label>
            <input type="text" id="name" name="name" required>

            <label for="age">Age:</label>
            <input type="number" id="age" name="age" required>

            <label for="gender">Gender:</label>
            <select id="gender" name="gender" required>
                <option value="">Select</option>
                <option value="male">Male</option>
                <option value="female">Female</option>
                <option value="other">Other</option>
            </select>

            <label for="address">Address:</label>
            <textarea id="address" name="address" rows="3" required></textarea>

            <label for="interest">Area of Interest:</label>
            <input type="text" id="interest" name="interest" required>

            <button type="submit">Submit</button>
        </form>
    </div>
</body>
</html>

```

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Inline CSS Example</title>
</head>
<body>
    <h1 style="color: blue; text-align: center;">Welcome to Inline CSS</h1>
    <p style="font-size: 18px; color: green; display: inline-block; padding: 10px; border: 2px solid black; background-color: lightgray;">
        This paragraph is styled using inline CSS.</p>

```

```
<button style="background-color: orange; color: white; padding: 10px; border: none; border-radius: 5px;">Click Me</button>
<button style="background-color: red; color: white; padding: 10px; border: none; border-radius: 5px; margin-left: 10px;">New Button</button>

<br><br>
<a href="https://www.example.com" style="font-size: 18px; color: blue; text-decoration: none;">Visit Example</a>
</body>
</html>
```

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```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Simple Internal CSS</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            text-align: center;
        }
        h1 {
            color: blue;
        }
        p {
            color: green;
            border: 1px solid black;
            padding: 10px;
            display: inline-block;
        }
        button {
            background-color: orange;
            color: white;
            padding: 10px;
            border: none;
            cursor: pointer;
        }
        a {
            color: red;
            text-decoration: none;
        }
    </style>
</head>
<body>
    <h1>Using Internal CSS
    </h1>
    <p>This is a simple paragraph.</p>
    <br><br>
```

```
<!DOCTYPE html>
<html>
<head>
    <title>My First Web Page</title>
</head>
<body>
    <h1>Hello, World!</h1>
    <p>This is my first web page. I am learning HTML!</p>
</body>
</html>
```

```
<button>Click Me</button>
<br><br>
<a href="https://www.example.com">Visit Example</a>
</body>
</html>
```

---

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>External CSS Example</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <h1>Welcome to My Page</h1>
  <p>This paragraph is styled using an external CSS file.</p>
  <div class="box">This is a styled box.</div>
  <br>
  <button class="primary-btn">Click Me</button>
  <button class="secondary-btn">Another Button</button>
  <br><br>
  <a href="https://www.example.com">Learn More</a>
</body>
</html>
```

```
body {
  font-family: Arial, sans-serif;
  text-align: center;
  background-color: #f4f4f4;
}
```

```
h1 {
  color: #333;
  background-color: #ddd;
  padding: 10px;
  border-radius: 5px;
}
```

```
p {
  color: #555;
  font-size: 18px;
  border: 1px solid #ccc;
  padding: 10px;
  display: inline-block;
  background-color: #fff;
  border-radius: 5px;
}
```

```
.box {
```

```
width: 200px;
height: 100px;
background-color: lightblue;
border: 2px solid blue;
margin: 10px auto;
padding: 10px;
text-align: center;
line-height: 80px;
border-radius: 8px;
}

button {
padding: 10px 15px;
border: none;
cursor: pointer;
font-size: 16px;
border-radius: 5px;
}

.primary-btn {
background-color: #28a745;
color: white;
}

.secondary-btn {
background-color: #dc3545;
color: white;
}

button:hover {
opacity: 0.8;
}

a {
color: #007bff;
text-decoration: none;
font-weight: bold;
}

a:hover {
text-decoration: underline;
}
```

---

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Dynamic Color Changer</title>
```

```

<style>
  body {
    font-family: Arial, sans-serif;
    text-align: center;
    background-color: #f4f4f4;
  }
  h1 {
    color: #333;
    background-color: #ddd;
    padding: 10px;
    border-radius: 5px;
  }
  p {
    color: #555;
    font-size: 18px;
    border: 1px solid #ccc;
    padding: 10px;
    display: inline-block;
    background-color: #fff;
    border-radius: 5px;
  }
  .box {
    width: 200px;
    height: 100px;
    background-color: lightblue;
    border: 2px solid blue;
    margin: 10px auto;
    padding: 10px;
    text-align: center;
    line-height: 80px;
    border-radius: 8px;
  }
  button {
    padding: 10px 15px;
    border: none;
    cursor: pointer;
    font-size: 16px;
    border-radius: 5px;
  }
  .change-btn {
    background-color: #007bff;
    color: white;
  }
  button:hover {
    opacity: 0.8;
  }
</style>
</head>
<body>
  <h1>Dynamic Background Color</h1>
  <p>Click the button to change the background color dynamically.</p>

```

```

body {
  font-family: Arial, sans-serif;
  background-color: #f4f4f4;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  margin: 0;
}
.container {
  background: white;
  padding: 20px;
  width: 350px;
  border-radius: 8px;
  box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
}
h2 {
  text-align: center;
}
form {
  display: flex;
  flex-direction: column;
}
label {
  margin-top: 10px;
  font-weight: bold;
}
input, select, textarea {
  padding: 8px;
  margin-top: 5px;
  border: 1px solid #ccc;
  border-radius: 5px;
  font-size: 16px;
}
button {
  margin-top: 15px;
  padding: 10px;
  background-color: #28a745;
  color: white;
  border: none;
  border-radius: 5px;
  font-size: 18px;
  cursor: pointer;
}
button:hover {
  background-color: #218838;
}

```

```
<br>
<form action="/cgi-bin/change.py" method="post">
    <button class="change-btn" type="submit">Change Background</button>
</form>
</body>
</html>

#!/usr/bin/python3

import random

# Print HTTP headers
print("Content-type: text/html\n")

# List of random colors
colors = ["#FF5733", "#33FF57", "#3357FF", "#F4A460", "#8A2BE2", "#20B2AA"]
bg_color = random.choice(colors)

# HTML Output
print(f"""
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Dynamic Color Changer</title>
    <style>
        body {{
            text-align: center;
            background-color: {bg_color};
            font-family: Arial, sans-serif;
        }}
        button {{
            padding: 10px 15px;
            font-size: 16px;
            border: none;
            background-color: #000;
            color: white;
            cursor: pointer;
            border-radius: 5px;
        }}
    </style>
</head>
<body>
    <h1>Background Color Changed!</h1>
    <form action="/cgi-bin/change.py" method="post">
        <button type="submit">Change Again</button>
    </form>
</body>
</html>
""")
```

---

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Email Validation</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            text-align: center;
            margin-top: 50px;
        }
        input {
            padding: 10px;
            font-size: 16px;
            width: 250px;
            margin-bottom: 10px;
        }
        button {
            padding: 10px 15px;
            font-size: 16px;
            background-color: #28a745;
            color: white;
            border: none;
            cursor: pointer;
            border-radius: 5px;
        }
        button:hover {
            background-color: #218838;
        }
        #message {
            margin-top: 10px;
            font-weight: bold;
        }
    </style>
</head>
<body>

    <h2>Email Validation Form</h2>
    <input type="text" id="email" placeholder="Enter your email">
    <br>
    <button onclick="validateEmail()">Validate Email</button>
    <p id="message"></p>

    <script>
        function validateEmail() {
            let email = document.getElementById("email").value;
            let message = document.getElementById("message");

            // Regular Expression for email validation
            let emailPattern = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}\$/;

```

```
if (emailPattern.test(email)) {
    message.style.color = "green";
    message.textContent = " ✅ Valid Email Address!";
} else {
    message.style.color = "red";
    message.textContent = " ❌ Invalid Email Address!";
}
</script>

</body>
</html>
```

---

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>HTML5 Form Example</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            text-align: center;
            margin-top: 50px;
        }
        form {
            display: inline-block;
            text-align: left;
            padding: 20px;
            border: 1px solid #ccc;
            border-radius: 10px;
            background-color: #f9f9f9;
        }
        label {
            font-weight: bold;
        }
        input {
            width: 100%;
            padding: 8px;
            margin-bottom: 10px;
            border: 1px solid #ccc;
            border-radius: 5px;
        }
        button {
            padding: 10px 15px;
            font-size: 16px;
            background-color: #007bff;
            color: white;
            border: none;
        }
    </style>
</head>
<body>
    <form>
        <label>Email:</label>
        <input type="text" id="emailInput" value="user@example.com" />
        <button type="button" onclick="checkEmail()>Check</button>
    </form>
</body>
</html>
```

```

        cursor: pointer;
        border-radius: 5px;
    }
    button:hover {
        background-color: #0056b3;
    }

```

</style>

</head>

<body>

## <h2>HTML5 Form with Various Inputs</h2>

<form>

<!-- Color Picker -->

<label for="color">Choose a Color:</label>

<input type="color" id="color" name="color">

<br>

<!-- Date Picker -->

<label for="date">Select a Date:</label>

<input type="date" id="date" name="date">

<br>

<!-- Email Input -->

<label for="email">Enter Email:</label>

<input type="email" id="email" name="email" placeholder="example@mail.com" required>

<br>

<!-- Range Slider -->

<label for="range">Select a Range (1-100):</label>

<input type="range" id="range" name="range" min="1" max="100">

<br>

<!-- Number Input -->

<label for="number">Enter a Number (1-100):</label>

<input type="number" id="number" name="number" min="1" max="100">

<br>

<!-- URL Input -->

<label for="url">Enter Website URL:</label>

<input type="url" id="url" name="url" placeholder="https://example.com" required>

<br>

<!-- Submit Button -->

<button type="submit">Submit</button>

</form>

</body>

</html>

---

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Canvas & SVG Drawing</title>
</head>
<body>
  <h2>Drawing with Canvas</h2>
  <canvas id="myCanvas" width="300" height="200" style="border:1px solid black;"></canvas>

  <h2>Drawing with SVG</h2>
  <svg width="300" height="200" style="border:1px solid rgb(0, 0, 0);>
    <!-- Line -->
    <line x1="10" y1="10" x2="150" y2="10" stroke="red" stroke-width="2" />
    <!-- Circle -->
    <circle cx="80" cy="80" r="30" fill="blue" />
    <!-- Rectangle -->
    <rect x="150" y="50" width="80" height="40" fill="skyblue" />
  </svg>

  <script>
    let canvas = document.getElementById("myCanvas");
    let ctx = canvas.getContext("2d");

    // Draw Line
    ctx.beginPath();
    ctx.moveTo(10, 10);
    ctx.lineTo(150, 10);
    ctx.strokeStyle = "green";
    ctx.lineWidth = 2;
    ctx.stroke();

    // Draw Circle
    ctx.beginPath();
    ctx.arc(80, 80, 30, 0, Math.PI * 2);
    ctx.fillStyle = "yellow";
    ctx.fill();

    // Draw Rectangle
    ctx.fillStyle = "red";
    ctx.fillRect(150, 50, 80, 40);
  </script>
</body>
</html>
```

---

127.0.0.1:5500/Exp%201/Exp%201b.html?name=srinivas&age=20&gender=Male&address=Padur%2C+Sai+Pragna+PG.&interest=Programming%2C+learning+New+Things

### Biodata Form

**Full Name:**

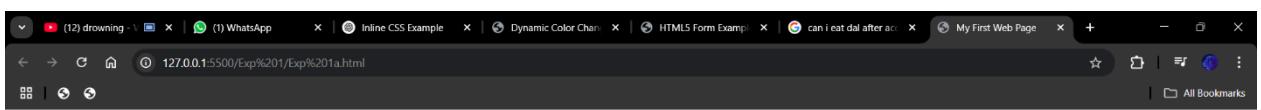
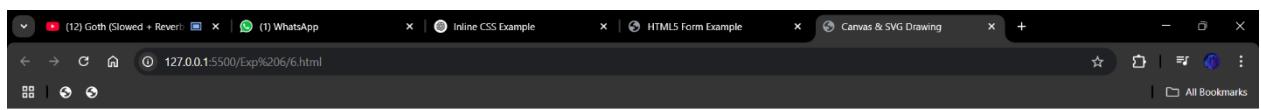
**Age:**

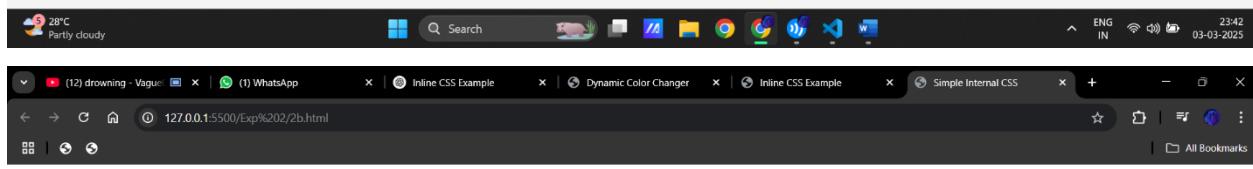
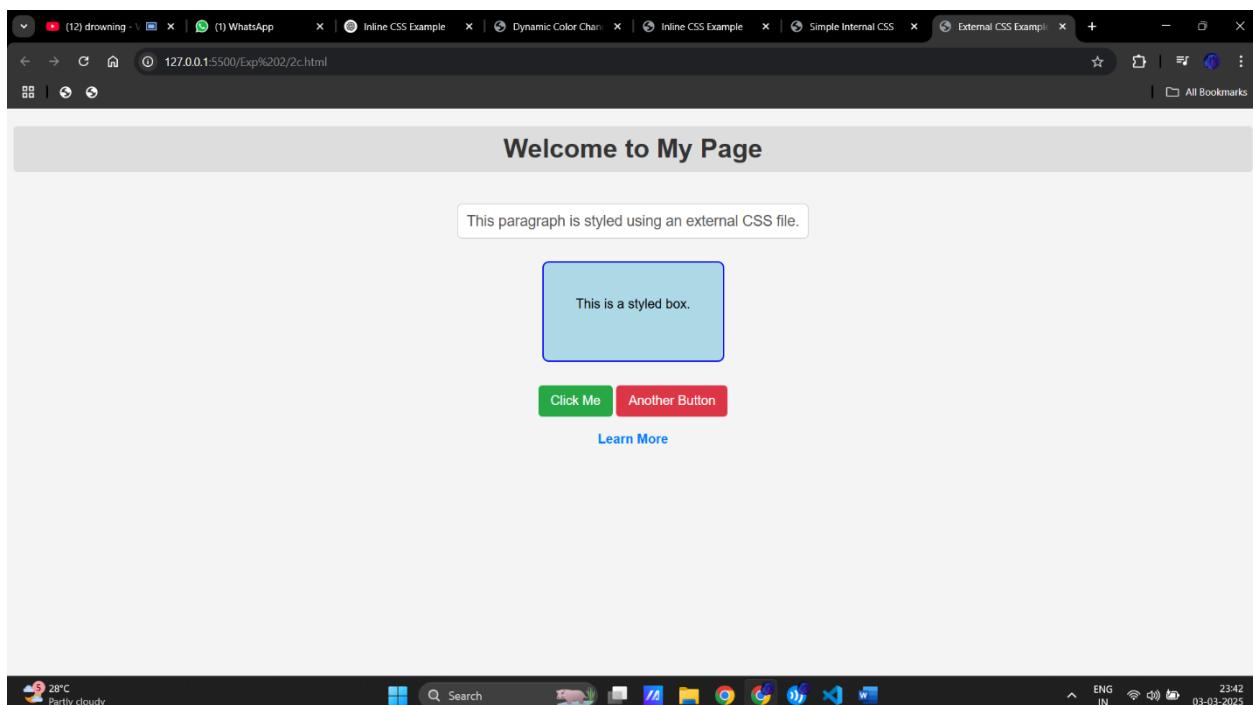
**Gender:**

**Address:**   


**Area of Interest:**

**Submit**



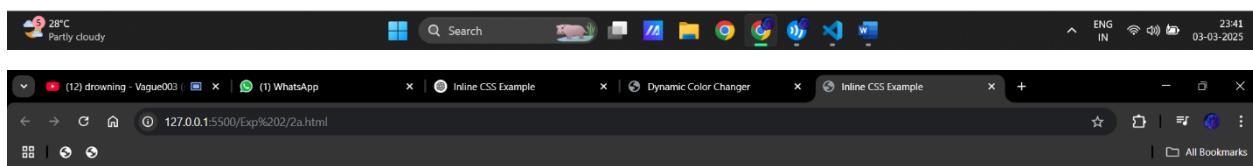


## Using Internal CSS

This is a simple paragraph.

Click Me

Visit Example



## Welcome to Inline CSS

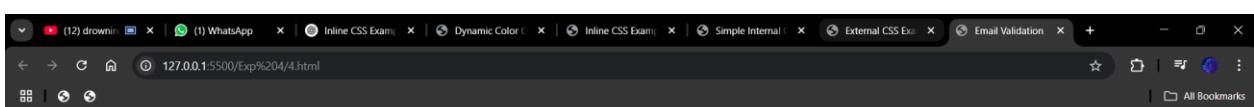
This paragraph is styled using inline CSS.

Click Me

New Button

Visit Example



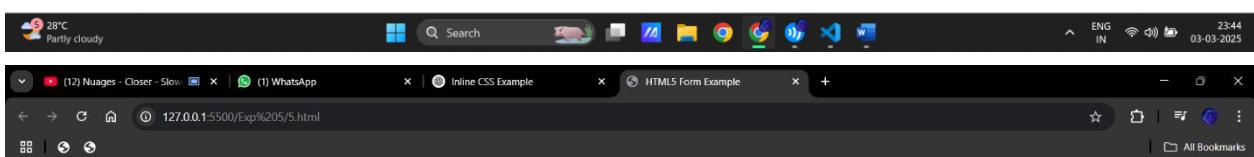


## Email Validation Form

srinivas@gamil.com

Validate Email

Valid Email Address!



## HTML5 Form with Various Inputs

Choose a Color:

Select a Date:

Enter Email:

Select a Range (1-100):

Enter a Number (1-100):

Enter Website URL:

Submit

