

Lesson 02 Demo 11

Using ID, Class, and Descendant Selectors in HTML

Objective: To create an HTML file that utilizes ID, class, and descendant selectors in CSS to style web page elements effectively

Tools required: Ubuntu Linux VM

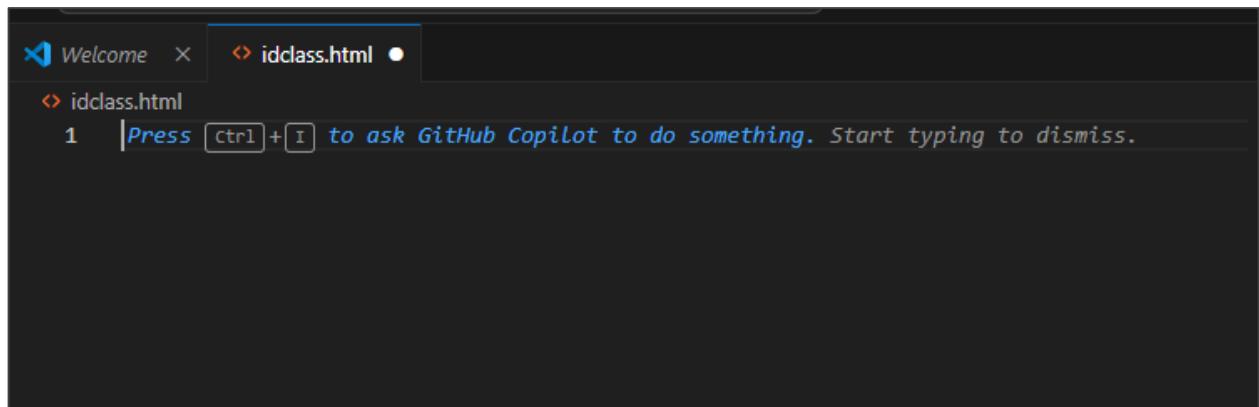
Prerequisites: Visual Studio Code

Steps to be followed:

1. Create and add code for ID, class, and descendant selectors
2. View the output in a browser

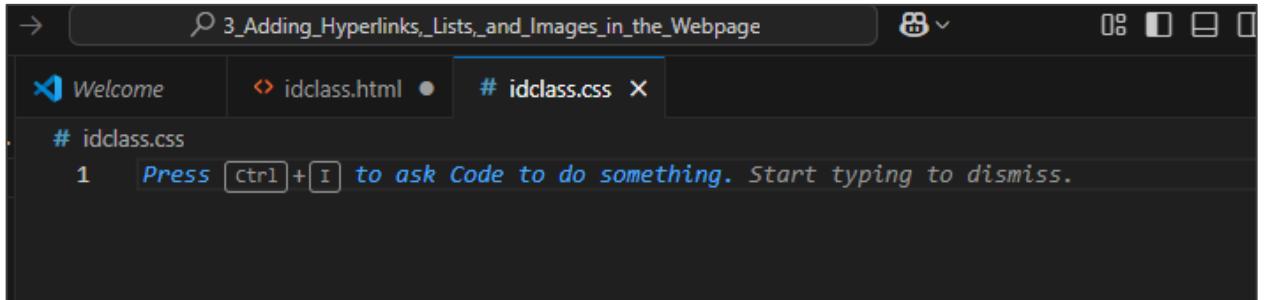
Step 1: Create and add code for ID, class, and descendant selectors

1.1 Create a new HTML file named **idclass.html**



A screenshot of the Visual Studio Code interface. The title bar shows "Welcome" and "idclass.html". The main editor area is empty, displaying the placeholder text: "1 | Press [Ctrl]+[I] to ask GitHub Copilot to do something. Start typing to dismiss." The background is dark.

1.2 Create a new CSS file named **idclass.css**



1.3 Enter the following code in the idclass.html file:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>CSS Selectors</title>
    <link rel="stylesheet" href="idclass.css">
</head>
<body>
    <h1>HTML</h1>
    <p class="center">Let's discuss CSS Selectors</p>
</body>
</html>
```

```
↳ idclass.html ●
↳ idclass.html > ...
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>CSS Selectors</title>
8      <link rel="stylesheet" href="idclass.css">
9  </head>
10 <body>
11     <h1>HTML</h1>
12     <p class="center">Let's discuss CSS Selectors</p>
13 </body>
14 </html>
```

1.4 Enter the following CSS code in the idclass.css file:

```
.center {
text-decoration: dashed;
color: bisque;
}

p.center {
background-color: brown;
}
```

```
>Welcome    ↳ idclass.html ●  # idclass.css ●
# idclass.css > ...
1  <.center {
2      text-decoration: dashed;
3      color: bisque;
4  }
5
6  <p.center {
7      background-color: brown;
8  }
9
```

1.5 Add the following code for a form in idclass.html to extend the HTML file:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Styled Form</title>
    <link rel="stylesheet" href="idclass.css">
</head>
<body>

    <h2>Form</h2>
    <div class="container">
        <form action="/action_page.php">
            <div class="row">
                <div class="col-25">
                    <label for="fname">First Name</label>
                </div>
                <div class="col-75">
                    <input type="text" id="fname" name="firstname" placeholder="Your name..">
                </div>
            </div>
            <div class="row">
                <div class="col-25">
                    <label for="lname">Last Name</label>
                </div>
                <div class="col-75">
                    <input type="text" id="lname" name="lastname" placeholder="Your last name..">
                </div>
            </div>
            <div class="row">
                <div class="col-25">
                    <label for="country">Country</label>
                </div>
                <div class="col-75">
                    <select id="country" name="country">
```

```

        <option value="canada">Canada</option>
        <option value="italy">Italy</option>
        <option value="usa">USA</option>
    </select>
</div>
</div>
<div class="row">
    <div class="col-25">
        <label for="subject">Subject</label>
    </div>
    <div class="col-75">
        <textarea id="subject" name="subject" placeholder="Write subject.." style="height:200px"></textarea>
    </div>
</div>
<br>
<div class="row">
    <input type="submit" value="Submit">
</div>
</form>
</div>

</body>
</html>

```

1.6 Update the **idclass.css** file with the following code to style the form:

```

* {
    box-sizing: border-box;
}

```

```

input[type=text], select, textarea {
    width: 100%;
    padding: 12px;
    border: 1px solid #ccc;
    border-radius: 4px;
    resize: vertical;
}

```

```
label {
    padding: 12px 12px 12px 0;
    display: inline-block;
}

input[type=submit] {
    background-color: #c516bc;
    color: white;
    padding: 12px 20px;
    border: none;
    border-radius: 4px;
    cursor: pointer;
    float: right;
}

input[type=submit]:hover {
    background-color: #220a19;
}

.container {
    border-radius: 5px;
    background-color: #f0dbf1;
    padding: 20px;
}

.col-25 {
    float: left;
    width: 25%;
    margin-top: 6px;
}

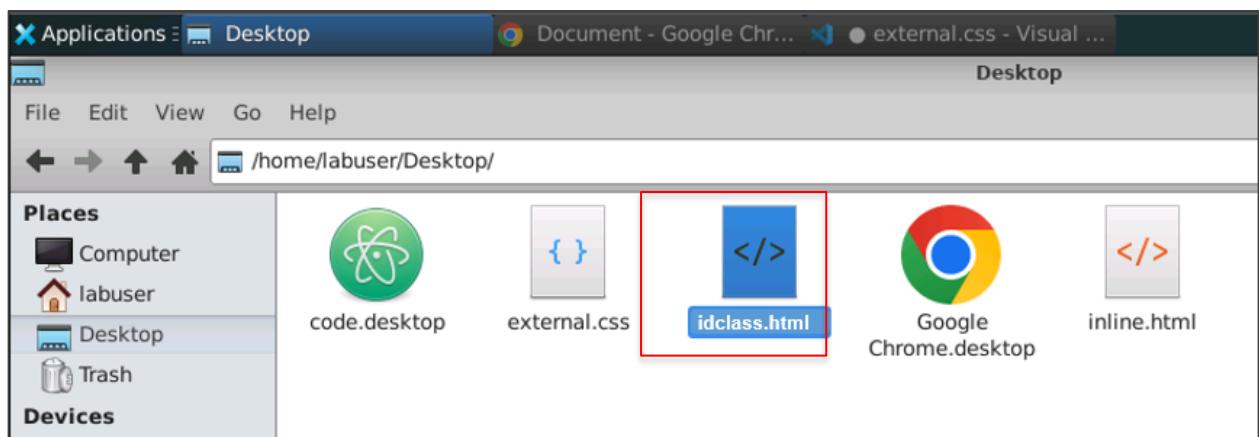
.col-75 {
    float: left;
    width: 75%;
    margin-top: 6px;
}

/* Clear floats after the columns */
```

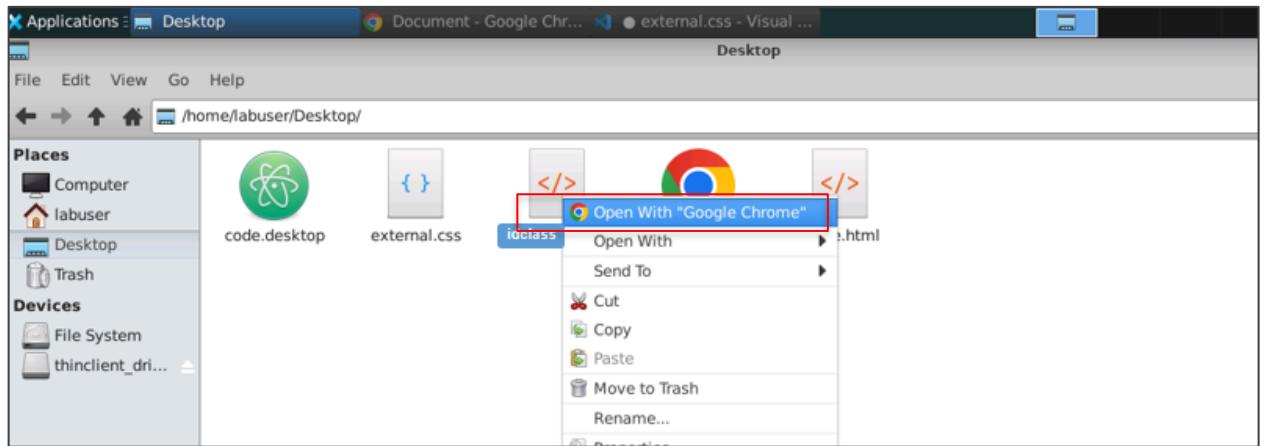
```
.row:after {  
    content: "";  
    display: table;  
    clear: both;  
}  
  
/* Responsive layout - Adjustments for screens less than 600px wide */  
@media screen and (max-width: 600px) {  
    .col-25, .col-75, input[type=submit] {  
        width: 100%;  
        margin-top: 0;  
    }  
}
```

Step 2: View the output in a browser

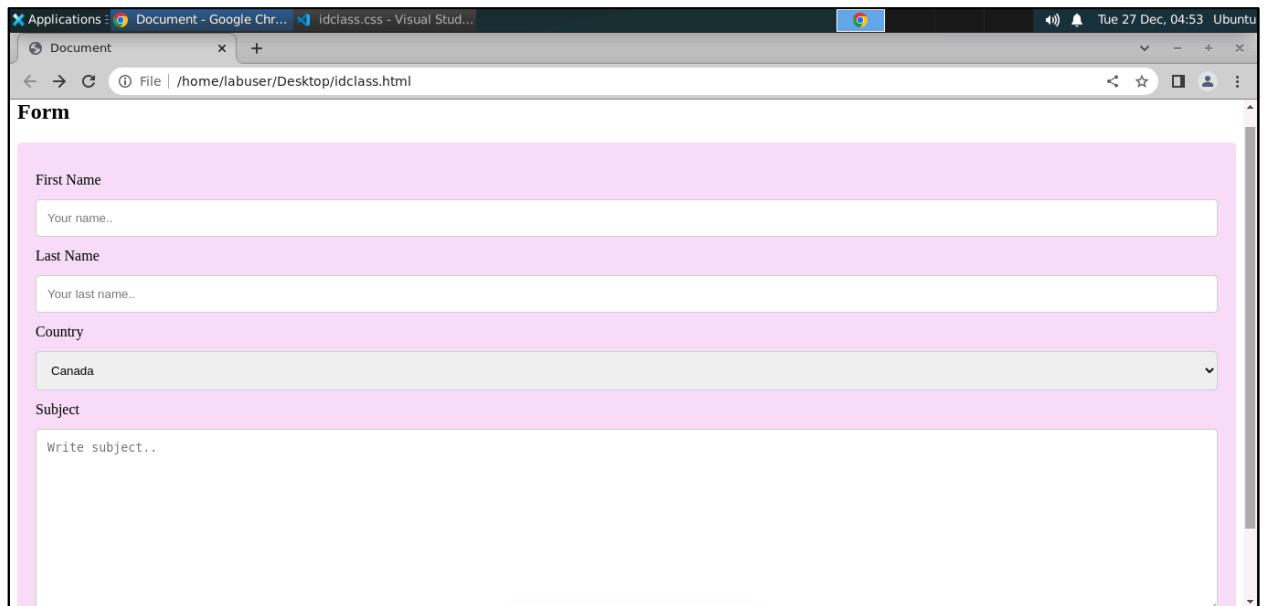
2.1 Locate the idclass.html file on the Desktop



2.2 Right-click on the file and select Open With “Google Chrome”



2.3 Ensure that the web page displays a styled sentence, a well-formatted form, and a responsive layout



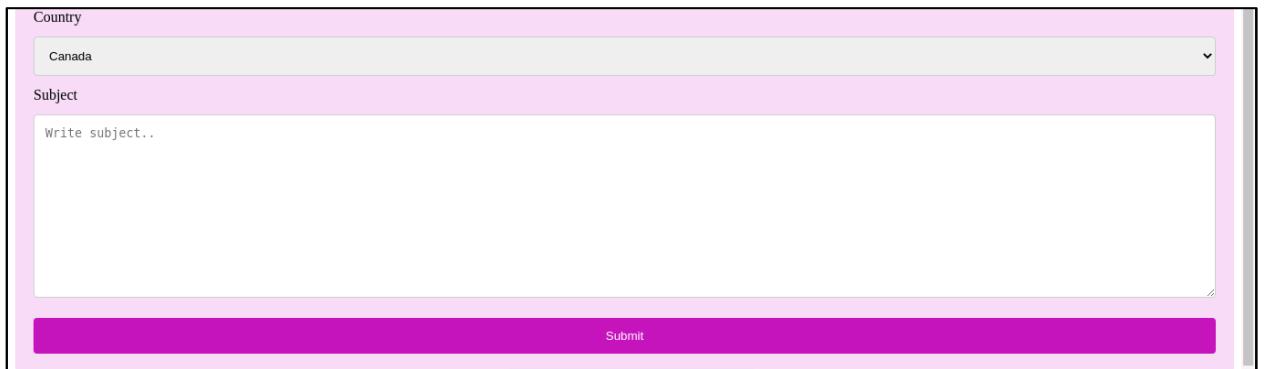
Country

Canada

Subject

Write subject..

Submit



By following these steps, you have successfully created an HTML file using ID, class, and descendant selectors in CSS to style web page elements, including a styled sentence and a form.