



Uttara University

Assignment-01

Course Title : INTERNET PROGRAMMING
Course Code : CSEC422
Department : Computer Science and Engineering

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Title: Implementation and Demonstration of CSS Properties in Web Design

Working Procedure:

1. HTML Structure:

- The page contains a `<div>` with the class `title` to display the heading.
- Several `<div>` elements with the class `box` are created, each representing a CSS property.
- Each box contains a `` tag for highlighting the CSS property name and a short description of its effect.

2. CSS Styling:

- The `body` has a gradient background and uses Flexbox to arrange the boxes.
- The `.title` class is styled with:
 - A gradient background.
 - A large font size.
 - A shadow effect.
 - Rounded corners for aesthetics.
- Each `.box`:
 - Has a fixed width and height.
 - Uses Flexbox for text alignment.
 - Has a unique background color.
 - Includes borders and shadows for a modern look.
- Specific CSS properties such as `border-radius`, `box-shadow`, `opacity`, `text-transform`, etc., are applied to demonstrate their effects inside each corresponding box.

3. Interactivity:

- Some properties (e.g., `.hover-effect`) change appearance on hover.
- The `.transition` class adds smooth animation effects.
- The `.cursor-pointer` changes the cursor to indicate interactivity.

Source Code:

```
lab report 2.html X
C: > Users > ASUS > Desktop > Spring 25 > Internet Programming > Lab > lab report 2.html > ...
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>CSS Tags</title>
7      <style>
8          body {
9              font-family: Arial, sans-serif;
10             display: flex;
11             flex-wrap: wrap;
12             justify-content: center;
13             gap: 10px;
14             padding: 20px;
15             background: linear-gradient(to right, #ff9a9e, #fad0c4);
16         }
17         .title {
18             width: 100%;
19             text-align: center;
20             font-size: 36px;
21             font-weight: bold;
22             margin-bottom: 30px;
23             color: #fff;
24             text-shadow: 4px 4px 8px #000;
25             padding: 15px;
26             background: linear-gradient(to right, #ff6a00, #ee0979);
27             border-radius: 10px;
28             box-shadow: 0px 5px 15px #000;
29         }
30         .box {
31             width: 250px;
32             height: 150px;
33             display: flex;
34             align-items: center;
35             justify-content: center;
36             text-align: center;
37             font-size: 16px;
38             border: 3px solid #fff;
39             padding: 15px;
40             flex-direction: column;
41             position: relative;
42             background: #ff7eb3;
43             color: #fff;
44             box-shadow: 4px 4px 10px #000;
45             border-radius: 10px;
46         }
47         .box strong {
48             font-size: 18px;
49             font-weight: bold;
50             color: #fff;
51             margin-bottom: 5px;
52         }
53         .bg-color { background-color: #6a11cb; }
54         .border-radius { border-radius: 15px; background-color: #fc466b; }
55         .box-shadow { box-shadow: 5px 5px 10px #000; background-color: #3a1c71; }
56         .opacity { opacity: 0.8; background-color: #ff6a00; }
57         .text-transform { text-transform: uppercase; background-color: #009ffd; }
58         .font-weight { font-weight: bold; background-color: #f44336; }
59         .font-style { font-style: italic; background-color: #ff9800; }
60         .text-decoration { text-decoration: underline; background-color: #8bc34a; }
61         .letter-spacing { letter-spacing: 3px; background-color: #3f51b5; }
62         .word-spacing { word-spacing: 5px; background-color: #795548; }
63         .text-shadow { text-shadow: 2px 2px 5px #000; background-color: #607d8b; }
64         .border-style { border: 5px dashed #fff; background-color: #ffeb3b; }
65         .background-gradient { background: linear-gradient(to right, #00c6ff, #0072ff); }
66         .transform-rotate { transform: rotate(10deg); background-color: #9c27b0; }
67         .overflow-hidden { overflow: hidden; white-space: nowrap; text-overflow: ellipsis; background-color: #ff4081; }
68         .cursor-pointer { cursor: pointer; background-color: #4caf50; }
```

```

69     .transition { transition: all 0.5s ease-in-out; background-color: #2196f3; }
70     .hover-effect:hover { background-color: #ff5722; }
71     .position-relative { position: relative; top: 10px; left: 10px; background-color: #673ab7; }
72     .display-flex { display: flex; align-items: center; justify-content: center; background-color: #03a9f4; }
73 </style>
74 </head>
75 <body>
76     <div class="title">CSS Tags</div>
77     <div class="box bg-color"><strong>background-color</strong>Sets the background color</div>
78     <div class="box border-radius"><strong>border-radius</strong>Rounds the corners</div>
79     <div class="box box-shadow"><strong>box-shadow</strong>Adds shadow to box</div>
80     <div class="box opacity"><strong>opacity</strong>Adjusts transparency</div>
81     <div class="box text-transform"><strong>text-transform</strong>Changes text case</div>
82     <div class="box font-weight"><strong>font-weight</strong>Controls text boldness</div>
83     <div class="box font-style"><strong>font-style</strong>Italicizes text</div>
84     <div class="box text-decoration"><strong>text-decoration</strong>Underlines text</div>
85     <div class="box letter-spacing"><strong>letter-spacing</strong>Increases letter gaps</div>
86     <div class="box word-spacing"><strong>word-spacing</strong>Increases word gaps</div>
87     <div class="box text-shadow"><strong>text-shadow</strong>Adds shadow to text</div>
88     <div class="box border-style"><strong>border-style</strong>Changes border type</div>
89     <div class="box background-gradient"><strong>background-gradient</strong>Applies gradient background</div>
90     <div class="box transform-rotate"><strong>transform: rotate</strong>Rotates the element</div>
91     <div class="box overflow-hidden"><strong>overflow-hidden</strong>Hides overflowing content</div>
92     <div class="box cursor-pointer"><strong>cursor: pointer</strong>Changes cursor on hover</div>
93     <div class="box transition"><strong>transition</strong>Adds animation effect</div>
94     <div class="box hover-effect"><strong>hover-effect</strong>Changes color on hover</div>
95     <div class="box position-relative"><strong>position: relative</strong>Moves element relative</div>
96     <div class="box display-flex"><strong>display: flex</strong>Aligns items flexibly</div>
97 </body>
98 </html>
99

```

Output:

