

## **Experiment 4 : IP Lab**

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**Title:**

Design Web pages using Advance CSS3.

**Problem Definition:**

Design a Web pages using CSS3 selectors, Pseudo classes, Pseudo elements

**Pre-requisites:**

HTML & CSS

**Theory:**

Selectors : CSS selectors are used to "find" (or select) the HTML elements you want to style. We can divide CSS selectors into five categories:

- Simple selectors (select elements based on name, id, class)
- Combinator selectors (select elements based on a specific relationship between them)
- Pseudo-class selectors (select elements based on a certain state)
- Pseudo-elements selectors (select and style a part of an element)
- Attribute selectors (select elements based on an attribute or attribute value)

Pseudo Class : A CSS pseudo-class is a keyword added to a selector that specifies a special state of the selected element(s). For example, the pseudo-class :hover can be used to select a button when a user's pointer hovers over the button and this selected button can then be styled.

Pseudo Element : A CSS pseudo-element is used to style specified parts of an element. For example, it can be used to: Style the first letter, or line, of an element Insert content before, or after, the content of an element.

**Procedure:**

Create a .css file

Make a button and give a hover function to it, to use pseudo class

Element selectors are used to design a particular element

The ::first-line pseudo-element is used to add a special style to the first line of a text.

**Program:**

```
<!DOCTYPE html>
<html>
<head>
<style>
/* unvisited link */
a:link {
    color: red;
}

/* visited link */
a:visited {
    color: green;
}

/* mouse over link */
a:hover {
    color: rgb(20, 3, 1);
}

/* selected link */
a:active {
    color: blue;
}

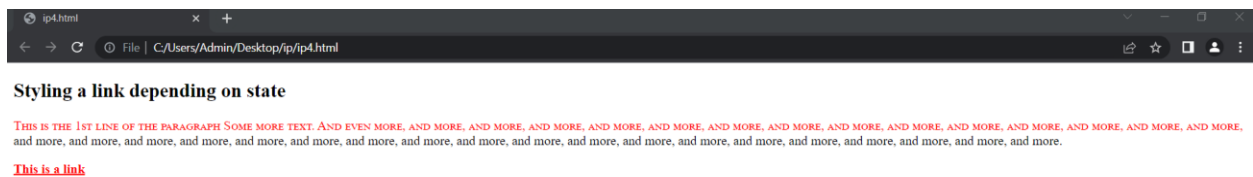
p::first-line {
    color: #ff0000;
    font-variant: small-caps;
}

</style>
</head>
<body>

<h2>Styling a link depending on state</h2>
```

```
<p>This is the 1st line of the paragraph Some more text. And even more, and more,  
and more, and more, and more, and more, and more, and more, and more, and more,  
and more, and more, and more, and more, and more, and more, and more, and more,  
and more, and more, and more, and more, and more, and more, and more, and more,  
and more, and more, and more, and more, and more, and more, and more, and more.  
</p>  
<b><a href="default.asp" target="_blank">This is a link</a></b>  
  
</body>  
</html>
```

## Output:



After hovering

**This is a link**

## Results:

The advance css classes and tags are created and displayed successfully

## References:

<https://developer.mozilla.org/en-US/docs/Web/CSS/Pseudo-classes>

[https://www.w3schools.com/css/css\\_selectors.asp](https://www.w3schools.com/css/css_selectors.asp)

[https://www.w3schools.com/css/css\\_pseudo\\_elements.asp](https://www.w3schools.com/css/css_pseudo_elements.asp)