

Working with Classes in CSS

Classes in CSS allow you to apply styles to multiple elements without altering the HTML structure significantly. By defining a class in CSS, you can reuse the style across different HTML elements, ensuring consistency and efficiency in your styling.

What are CSS Classes?

CSS classes are used to define a group of styles that can be applied to multiple elements. By assigning a class to an HTML element, you can control the appearance of that element using CSS.

1. Defining Classes in CSS:

- The `.mountains` class is defined to have the following styles:`

```
css Copy code
p.mountains {
  color: brown;
  text-align: justify;
  text-decoration: underline;
  font-size: 16pt;
}
```

- The `.beach` class is defined to have these styles:`

```
css Copy code
p.beach {
  color: navy;
  text-align: right;
  text-decoration: overline;
  font-size: 14pt;
}
```

2. Applying Classes in HTML:

- The `class` attribute is used within the paragraph tags to apply the respective classes:`

```
html Copy code
<p class="mountains">Exploring the Mountains...</p>
<p class="beach">Relaxing on the Beach...</p>
```



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**Advantages of Using CSS Classes**

**1. Reusability:**

○ Classes can be applied to multiple elements, making it easy to reuse styles across the website.

**2. Maintainability:**

○ By defining styles in one place (the CSS file), you can easily make changes that will automatically apply to all elements using that class.

**3. Specificity:**

○ Classes offer a higher specificity than element selectors, allowing for more precise styling without affecting other elements.

**4. Modularity:**

○ Classes allow you to create modular styles that can be mixed and matched, promoting a clean and organized approach to CSS.

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```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Healthy Eating</title>
  <style>
    h1 {
      text-align: center;
      color: darkorange;
    }
    p {
      font-weight: bold;
      margin-right: 10%;
    }
    p.fruits {
      color: green;
      text-align: left;
      text-decoration: underline;
      font-size: 14pt;
    }
    p.water {
      color: blue;
      text-align: center;
      text-decoration: underline;
      font-size: 12pt;
    }
  </style>
</head>
<body>
  <h1>Healthy Eating</h1>
  <p class="fruits">The Importance of Fruits and Vegetables: Fruits and vegetables are essential components of a healthy diet. They provide vital nutrients, vitamins, and minerals that help maintain good health and prevent chronic diseases.</p>
  <p class="water">Benefits of Drinking Water: Drinking adequate water is crucial for overall health. It helps to keep the body hydrated, supports digestion, flushes out toxins, and maintains healthy skin and energy levels.</p>
</body>
</html>

```

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Explanation:

**HTML:**

- The <head> section includes a <title> that sets the page title to "Healthy Eating".
- The <style> tag contains CSS rules to style the elements.
- The <body> section contains an <h1> heading and two paragraphs with different classes: fruits and water.

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**CSS:**

- The h1 element is styled with text-align: center; and color: darkorange; to center the heading and give it a dark orange color.
- The general p style is applied to all paragraphs, making the text bold and adding a 10% right margin.
- The p.fruits class applies specific styles to the first paragraph:
  - color: green;; Sets the text color to green.
  - text-align: left;; Aligns the text to the left.
  - text-decoration: overline;; Adds an overline to the text.
  - font-size: 14pt;; Sets the font size to 14 points.
- The p.water class applies specific styles to the second paragraph:
  - color: blue;; Sets the text color to blue.
  - text-align: center;; Centers the text.
  - text-decoration: underline;; Adds an underline to the text.
  - font-size: 12pt;; Sets the font size to 12 points.

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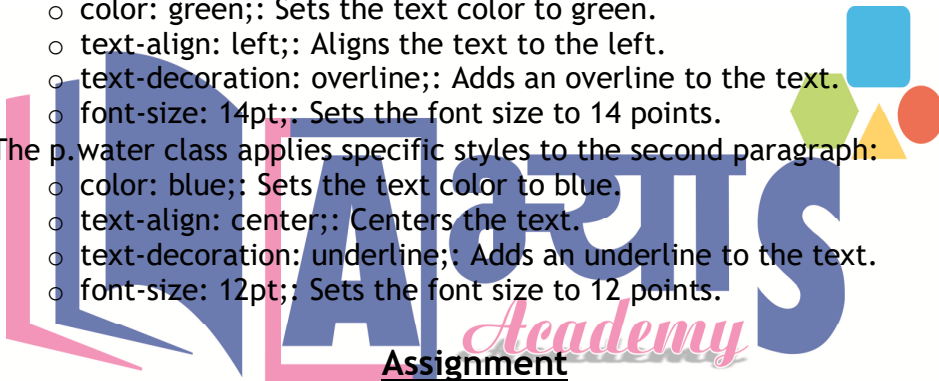
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**Question 1:** Create a webpage with a main heading and two paragraphs. Style the paragraphs using CSS to demonstrate the following:

- The main heading should read "Travel Destinations".
- The first paragraph should discuss "Exploring the Mountains" and have the following styles:
  - Text color: Brown
  - Text alignment: Justify
  - Text decoration: Underline
  - Font size: 16pt
- The second paragraph should discuss "Relaxing on the Beach" and have the following styles:
  - Text color: Navy
  - Text alignment: Right
  - Text decoration: Overline

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- Font size: 14pt

**Question 2:** Create a webpage with a main heading and two paragraphs. Style the paragraphs using CSS to demonstrate the following:

- The main heading should read "Healthy Living".
- The first paragraph should discuss "Benefits of Regular Exercise" and have the following styles:

- Text color: DarkGreen
- Text alignment: Left
- Text decoration: Line-through
- Font size: 14pt

• The second paragraph should discuss "Importance of Sleep" and have the following styles:

- Text color: DarkRed
- Text alignment: Center
- Text decoration: None
- Font size: 12pt

**Question 3:** Create a webpage with a main heading and two paragraphs. Style the paragraphs using CSS to demonstrate the following:

- The main heading should read "Technology Trends".
- The first paragraph should discuss "The Rise of Artificial Intelligence" and have the following styles:

- Text color: Black
- Text alignment: Justify
- Text decoration: Overline
- Font size: 15pt

• The second paragraph should discuss "Advancements in Robotics" and have the following styles:

- Text color: Gray
- Text alignment: Left
- Text decoration: Underline
- Font size: 13pt

**Question 4:** Create a webpage with a main heading and two paragraphs. Style the paragraphs using CSS to demonstrate the following:

- The main heading should read "Culinary Delights".
- The first paragraph should discuss "Gourmet Cooking" and have the following styles:

- Text color: DarkBlue
- Text alignment: Right
- Text decoration: Line-through
- Font size: 18pt

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• The second paragraph should discuss "Baking Basics" and have the following styles:

- Text color: DarkOrange
- Text alignment: Center
- Text decoration: Overline
- Font size: 14pt

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Class

Style sheet supports classes or sets of style changes for a document.

A class can be defined to change the style in a specific way for any element it is applied to and classes can be used to identify logical sets of style change that ought be different for different html. If any element is made a member of a class by inserting class = class name into it opening tag, it conforms to that class's specification.

In a style sheet class is defined by a dot followed by the name of the class i.e.

Use of class

Input

<html>

<head>

```

<title> Working with class </title>
<style type="Text / css">
p{font-size:12 pt; font- weight : bold ;
text – align : justify;
margin-right:10%;}
p.question {color: blue; font – style: italic;}
p.answer {color: red;}
</style>

```

</head>

<Body>

<p class ="question">How to create style sheet to alter an HTML elements? </p>

<p class="answer">the style assignment process can be accomplished with <style> and </style>.

The syntax for making the assignment is simple.

Between <style> and </style>,

<p class ="question">what are the attribute that can be specified? </p>..

<p class="answer">the attribute that can be specified are font attributes, color and background</p>

**Assignment:**

**Write coding for a web page in which, create 4 paragraphs with 4 images at bottom. Create classes for each paragraph and image**

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