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Example-1

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Document</title>

</head>

<body>

<!-- Content goes here -->

</body>

</html>
```

The screenshot shows the Microsoft Visual Studio Code interface. The code editor displays the provided HTML code. The Explorer sidebar shows project files like '2DArray.cpp', 'Check_palindrom.cpp', 'g.html', 'main.js', 'prime.o', 's.html', and 'styles.css'. The terminal at the bottom shows PowerShell history and a warning about screen reader compatibility.

```
26
42
2
PS C:\c++\dist\build\Debug\lecture23>
*: History restored

Warning: PowerShell detected that you might be using a screen reader and has disabled PsReadLine for compatibility purposes. If you want to re-enable it, run 'Import-Module PSReadLine'

PS C:\c++>
```

Output



Example-2

```
<!-- HTML4: Explicit closing tags -->
<meta charset="UTF-8"></meta>
<!-- HTML5: Omitted closing tags for void elements -->
<meta charset="UTF-8">
```

The screenshot shows the Microsoft Visual Studio Code interface. The Explorer pane on the left displays a file tree for a C++ project named 'C++'. The 'build\Debug' folder contains several executables: Check_palindrom.exe, Length_of_string.exe, reverse_string.exe, and 2DArray.exe. The 'lecture23' folder contains 2DArray.cpp and 2DArray.exe. The 'Example.html' file is selected in the Explorer. The Editor pane at the top right shows the content of Example.html, which includes meta tags and comments about HTML4 and HTML5 parsing rules. The Terminal pane at the bottom shows a PowerShell session with the path PS C:\cra\dist\build\Debug\lecture23. A message in the terminal indicates that PowerShell detected a screen reader and disabled PSReadline. The status bar at the bottom right shows the date and time as 12-01-2024.

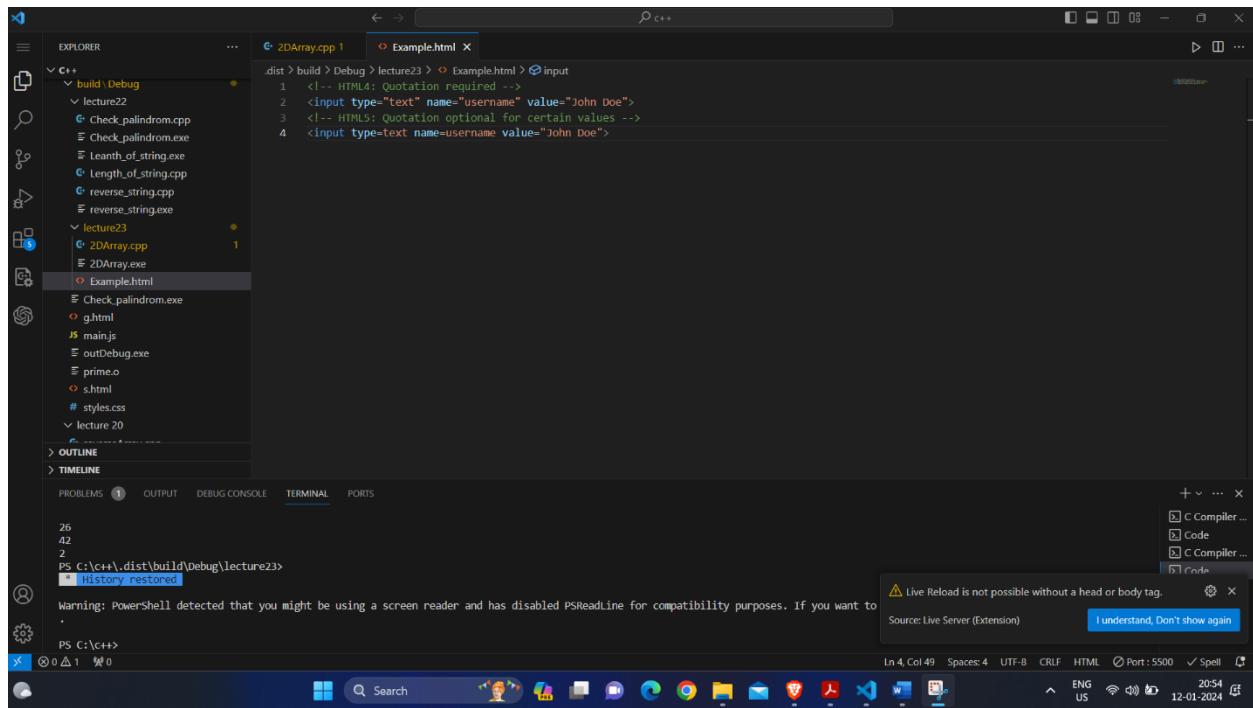
Output



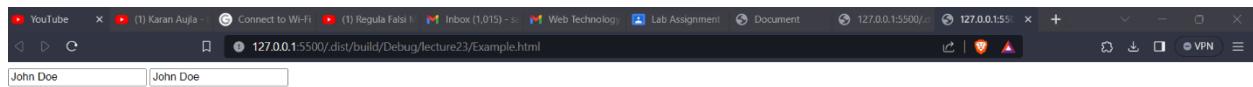
Example-3

```
<!-- HTML4: Quotation required -->  
<input type="text" name="username" value="John Doe">  
<!-- HTML5: Quotation optional for certain values -->
```

```
<input type="text" name="username" value="John Doe">
```



Output



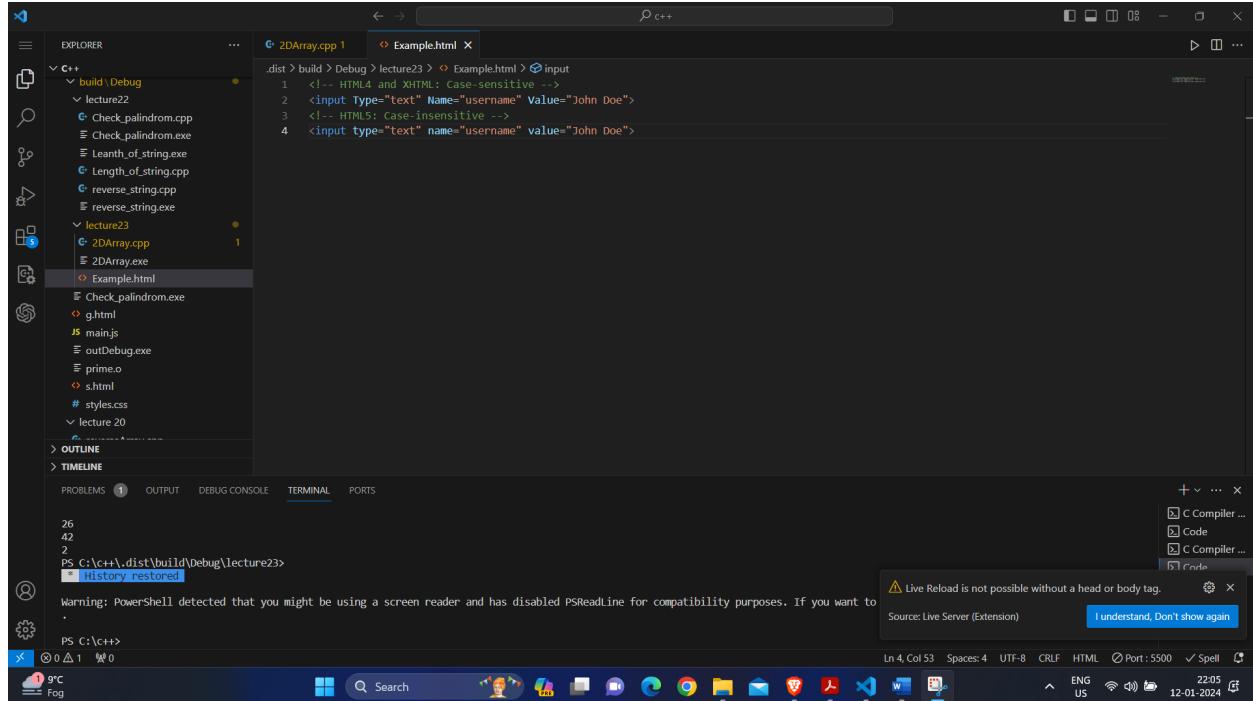
Example-4

```
<!-- HTML4 and XHTML: Case-sensitive -->
```

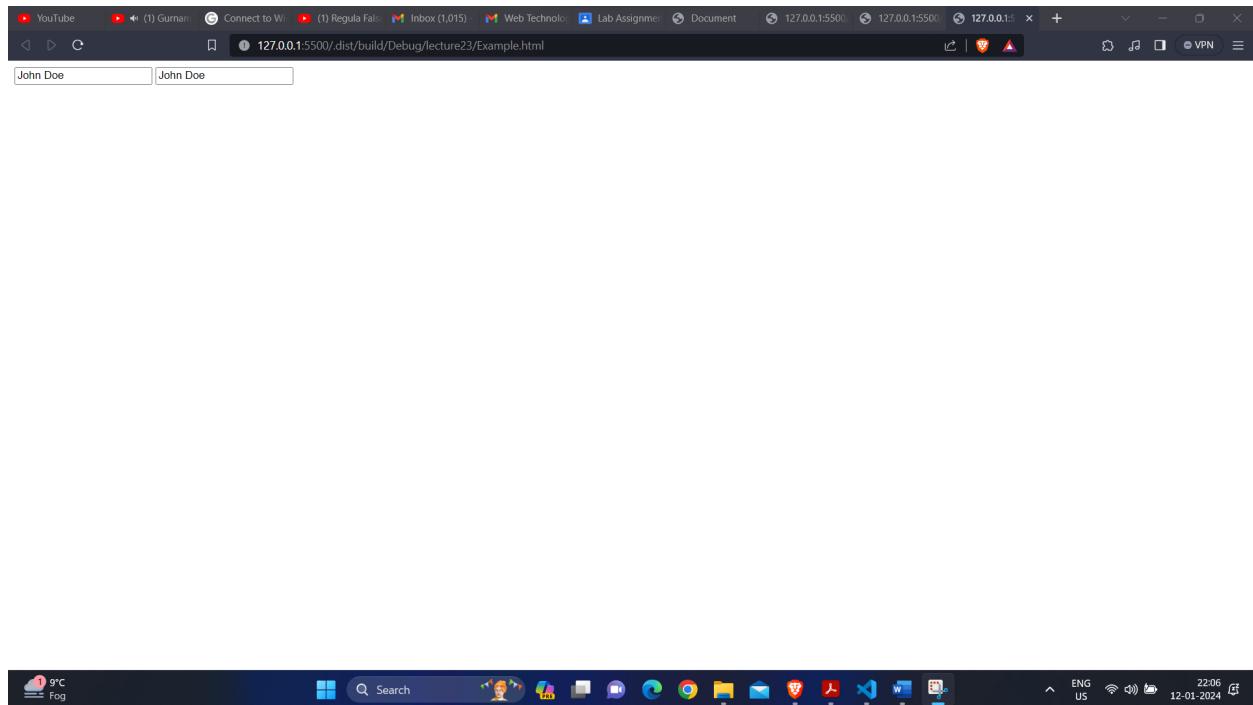
```

<input Type="text" Name="username" Value="John Doe">
<!-- HTML5: Case-insensitive --&gt;
&lt;input type="text" name="username" value="John Doe"&gt;
</pre>

```



Output



Example-5

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>My First HTML5 Page</title>
  </head>
  <body>
    <header>
      <h1>Welcome to My Website</h1>
    </header>
    <nav>
      <ul>
        <li><a href="#home">Home</a></li>
        <li><a href="#about">About</a></li>
        <li><a href="#contact">Contact</a></li>
      </ul>
    </nav>
    <section>
      <h2>About Us</h2>
      <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit...</p>
    </section>
    <footer>
      <p>&copy; 2023 My Website. All rights reserved.</p>
    </footer>
  </body>
</html>
```

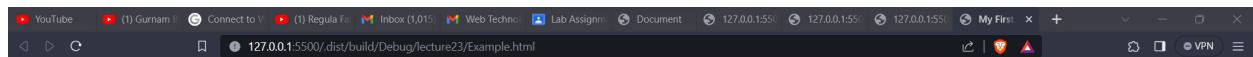
The screenshot shows the Microsoft Visual Studio Code interface. In the Explorer pane, there are several projects and files listed under the 'C++' folder, including 'build', 'Debug', 'lecture22', 'lecture23', and 'outDebug.exe'. The 'Example.html' file is selected in the Editor pane, displaying its HTML code. A tooltip in the Editor pane says 'Live Reload is not possible without a head or body tag.' The Terminal pane shows PowerShell output with a warning about PSReadLine compatibility.

```

26
42
2
PS C:\c++\dist\build\Debug\lecture23> *History restored*
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility purposes. If you want to

```

Output



Welcome to My Website

- [Home](#)
- [About](#)
- [Contact](#)

About Us

Lorem ipsum dolor sit amet, consectetur adipiscing elit...

© 2023 My Website. All rights reserved.



Example-6

```

<article>
<h2>Article Title</h2>
<p>Article content goes here.</p>

```

</article>

The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left lists several C++ projects and files, including 'lecture22' and 'lecture23'. The code editor window displays the content of 'Example.html':

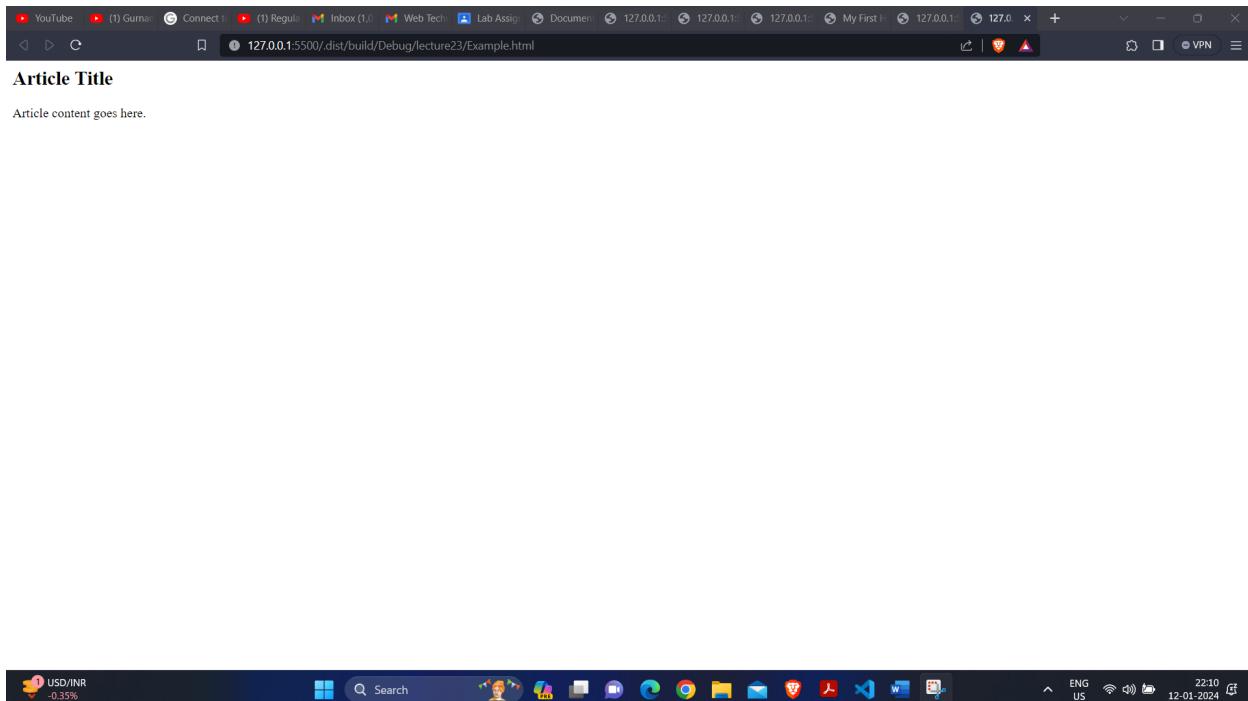
```
<article>
  <h2>Article Title</h2>
  <p>Article content goes here.</p>
</article>
```

The terminal at the bottom shows the following build logs:

```
26
42
2
PS C:\c++\dist\build\Debug\lecture23> *History restored*
```

A status bar at the bottom indicates the file is 0.29% complete.

Output



Example-7

```
<main>
<h1>Main Content Heading</h1>
```

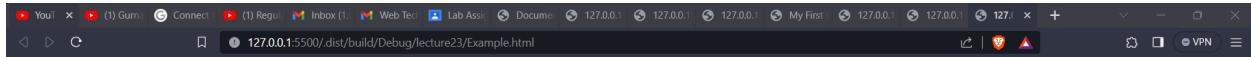
<p>Main content goes here.</p>
</main>

The screenshot shows the Visual Studio Code interface. The code editor displays the following C++ code:

```
1 <main>
2     <h1>Main Content Heading</h1>
3     <p>Main content goes here.</p>
4 </main>
```

The Explorer sidebar shows a project structure with files like 2DArray.cpp, Example.html, and various .exe files. The terminal at the bottom shows a PowerShell session with history restored. A status bar at the bottom right shows the date and time.

Output



Main Content Heading

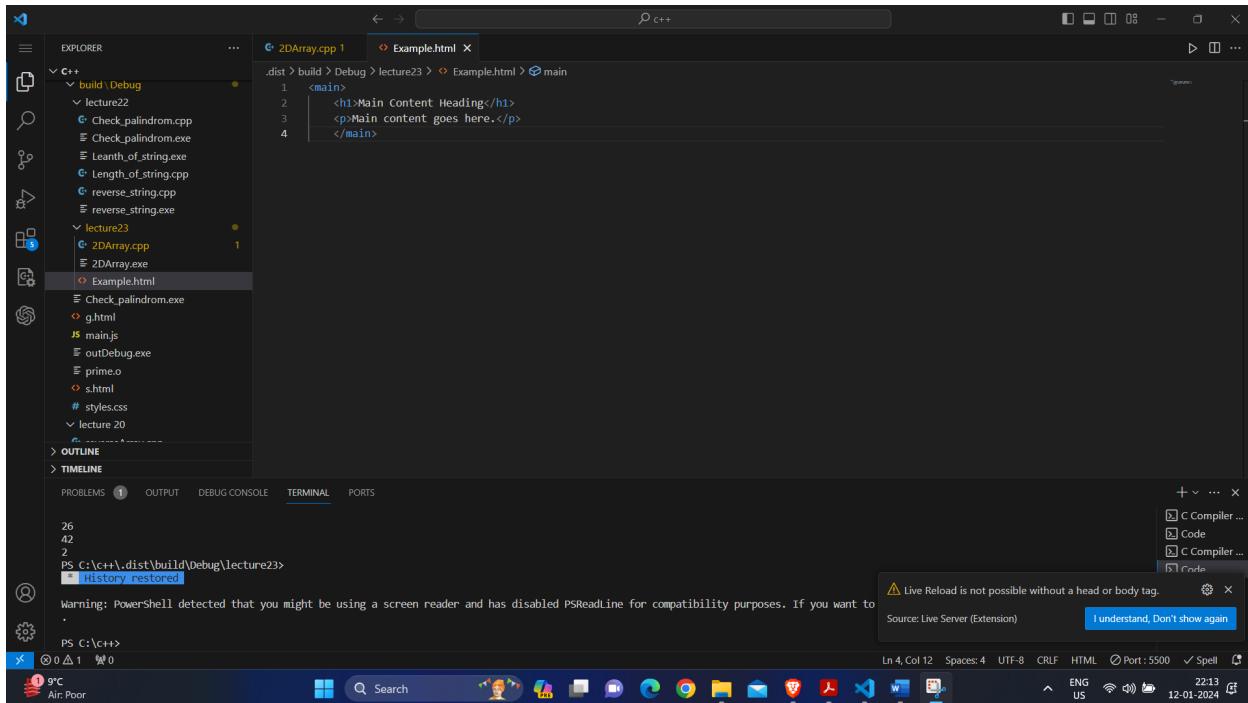
Main content goes here.



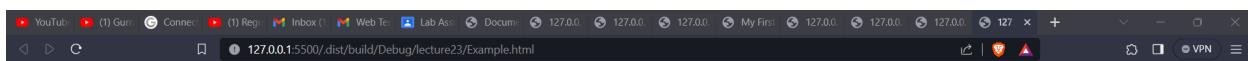
Example-8

<aside>

<h2>Related Information</h2>
<p>Additional content goes here.</p>
</aside>



Output



Related Information

Additional content goes here.



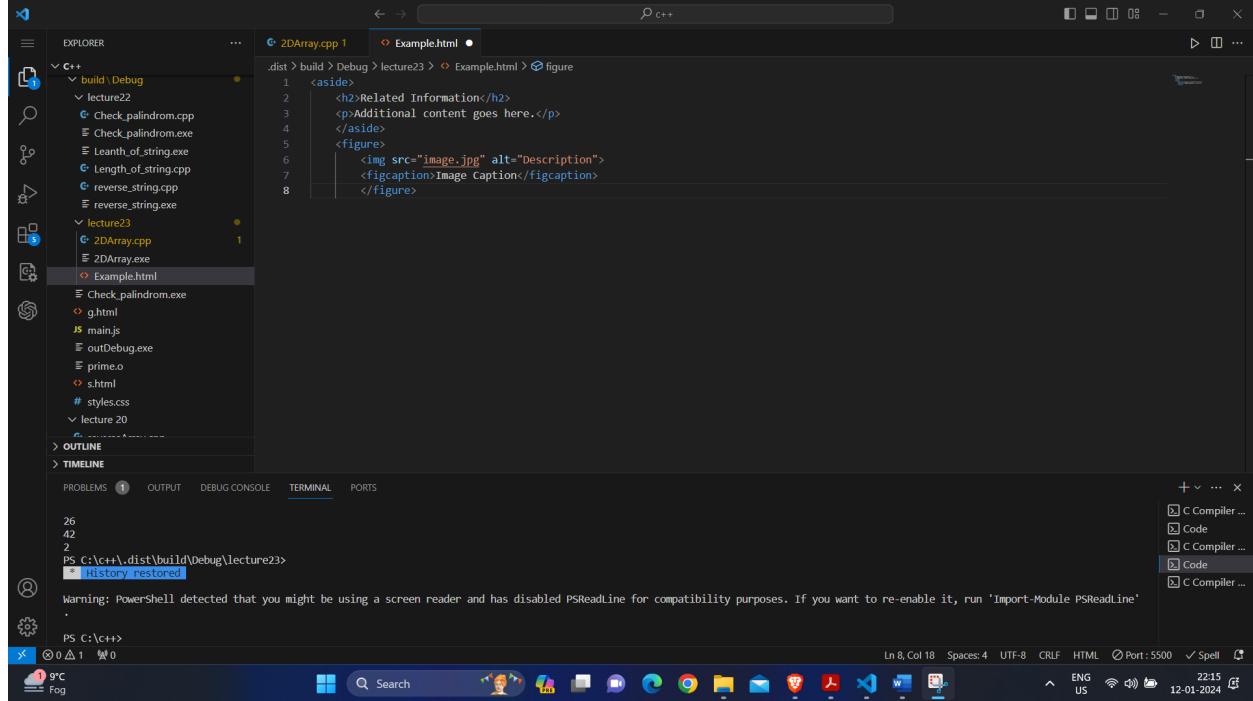
Example-9

```

<figure>

<figcaption>Image Caption</figcaption>
</figure>

```



The screenshot shows the Microsoft Visual Studio Code interface. The code editor window displays the following HTML code:

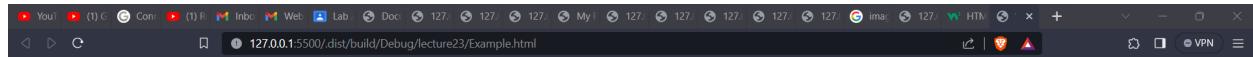
```

<aside>
  <h2>Related Information</h2>
  <p>Additional content goes here.</p>
</aside>
<figure>
  
  <figcaption>Image Caption</figcaption>
</figure>

```

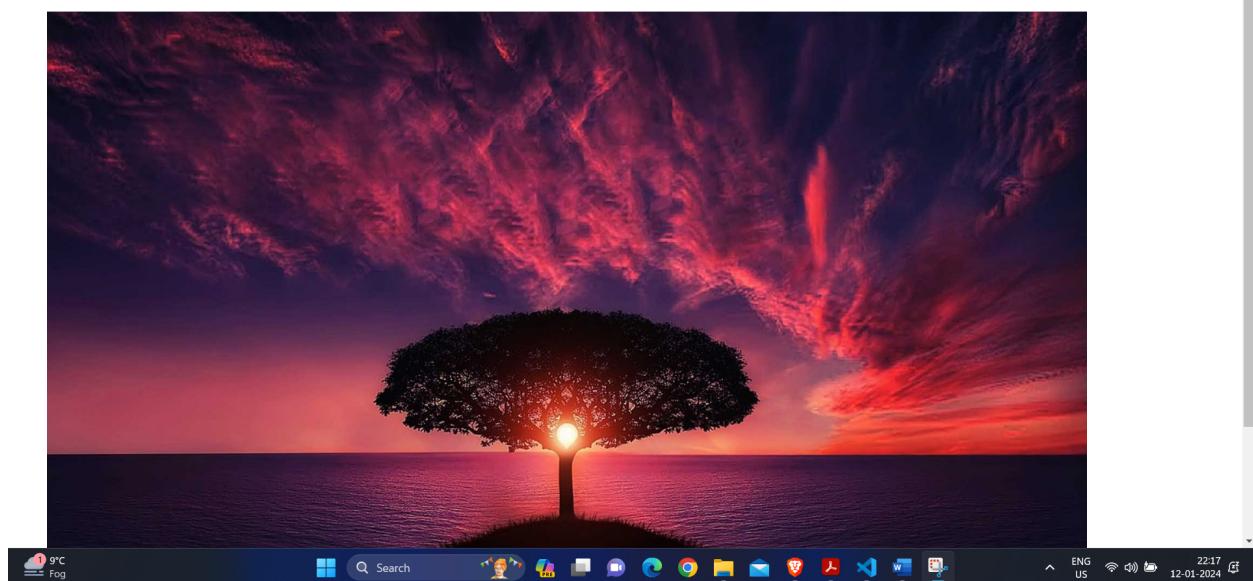
The Explorer sidebar on the left shows a file tree with projects like 'lecture22' and 'lecture23', and files such as '2DArray.cpp', 'Example.html', and various build artifacts. The status bar at the bottom indicates the file is saved and shows the path 'C:\c++\dist\build\Debug\lecture23\Example.html'.

Output



Related Information

Additional content goes here.



Example-10

```
<div id="container">
<p>This is a paragraph inside a generic container.</p>
</div>
<span style="color: red;">This is inline text with red color.</span>
<p>This is <b>bold</b> and <i>italic</i> text.</p>
```

The screenshot shows the Microsoft Visual Studio Code interface. The code editor displays the provided HTML code. The terminal at the bottom shows PowerShell output indicating a warning about screen reader compatibility and a history restore. The status bar at the bottom right shows the file path, line count (Ln 13), character count (Col 63), and other settings.

```
<div id="container">
<p>This is a paragraph inside a generic container.</p>
</div>
<span style="color: red;">This is inline text with red color.</span>
<p>This is <b>bold</b> and <i>italic</i> text.</p>
```

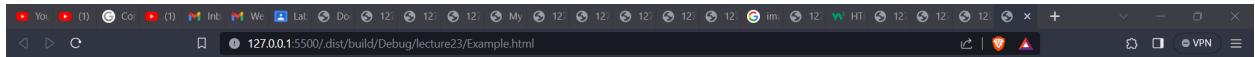
TERMINAL

```
26
42
2
PS C:\c++\dist\build\Debug\lecture23> * History restored
Warning: PowerShell detected that you might be using a screen reader and has disabled PsReadLine for compatibility purposes. If you want to
.
PS C:\c++>
```

STATUS BAR

```
LN 13, COL 63 SPACES: 4 UTF-8 CR/LF HTML ⚡ PORT: 5500 ✓ SPELL ENG US 22:19 12-01-2024
```

Output



Related Information

Additional content goes here.



Image Caption

This is a paragraph inside a generic container.

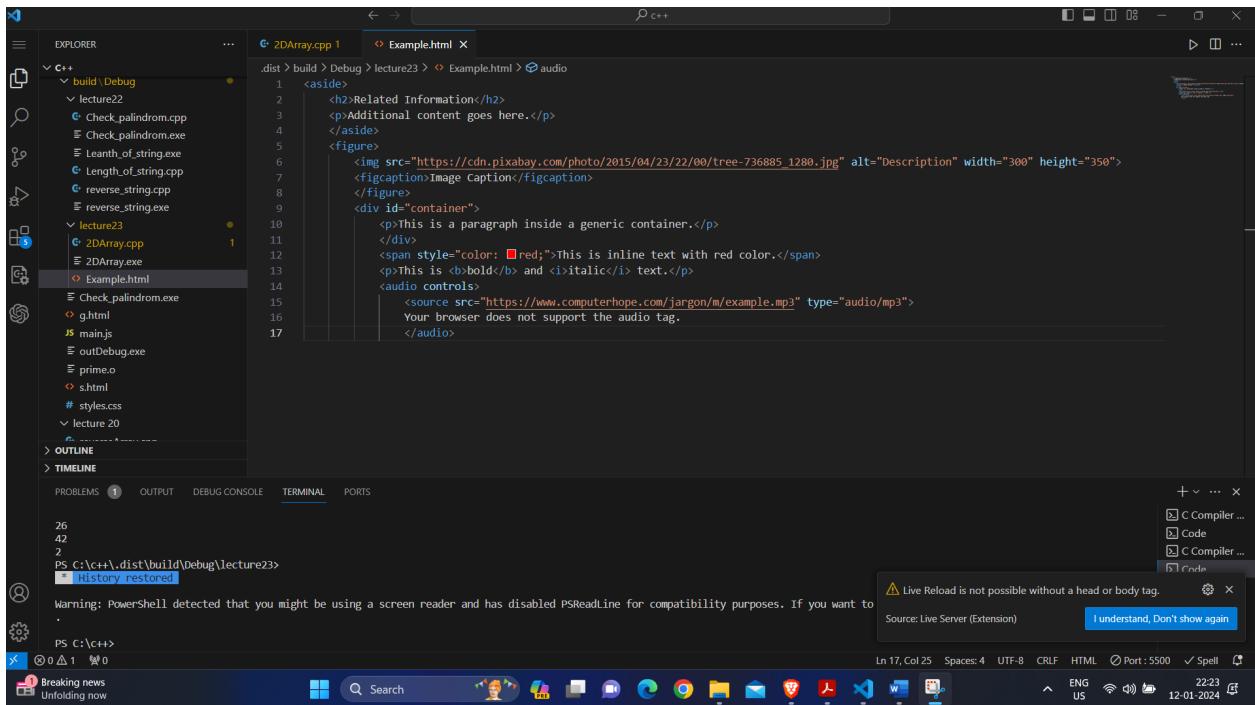
This is inline text with red color.

This is **bold** and *italic* text.

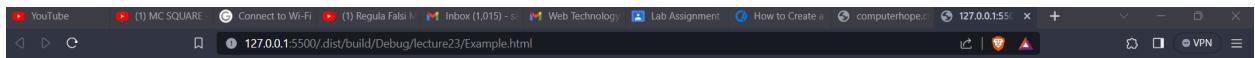


Example-11

```
<audio controls>
<source src="audio.mp3" type="audio/mp3">
Your browser does not support the audio tag.
</audio>
```



Output



Related Information

Additional content goes here.



Image Caption

This is a paragraph inside a generic container.

This is inline text with red color.

This is **bold** and *italic* text.

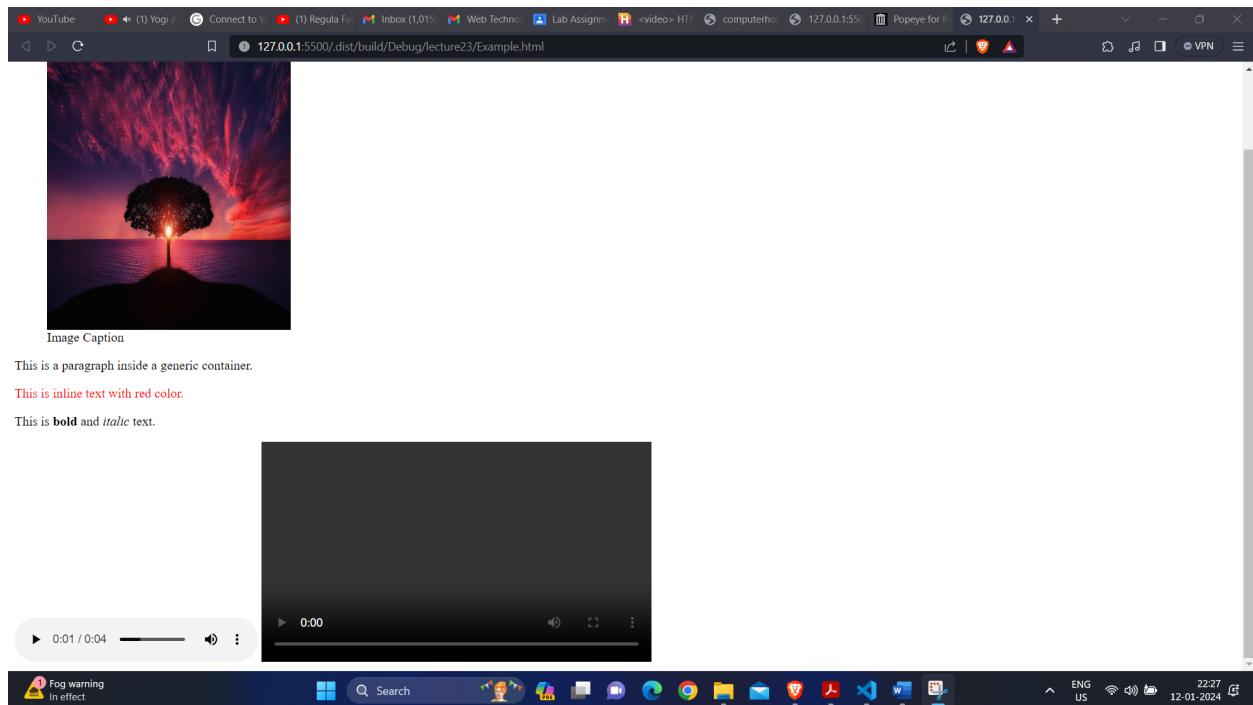


Example-12

```
<video controls width="480" height="270">
<source src="video.mp4" type="video/mp4">
Your browser does not support the video tag.
</video>
```

The screenshot shows the Microsoft Visual Studio Code interface. The Explorer sidebar on the left lists files and folders, including a 'build' folder containing 'Debug' and 'lecture22' subfolders, and a 'dist' folder containing 'build', 'Debug', and 'lecture23' subfolders. The 'Example.html' file is selected in the Explorer. The Editor tab at the top shows the content of 'Example.html'. The code includes an aside section with a related information header, a figure with an image of a tree, and a container div with a paragraph and an audio element. The Terminal tab shows a PowerShell session with history restored. A status bar at the bottom right shows the file is open at line 21, column 29.

Output



Example-13

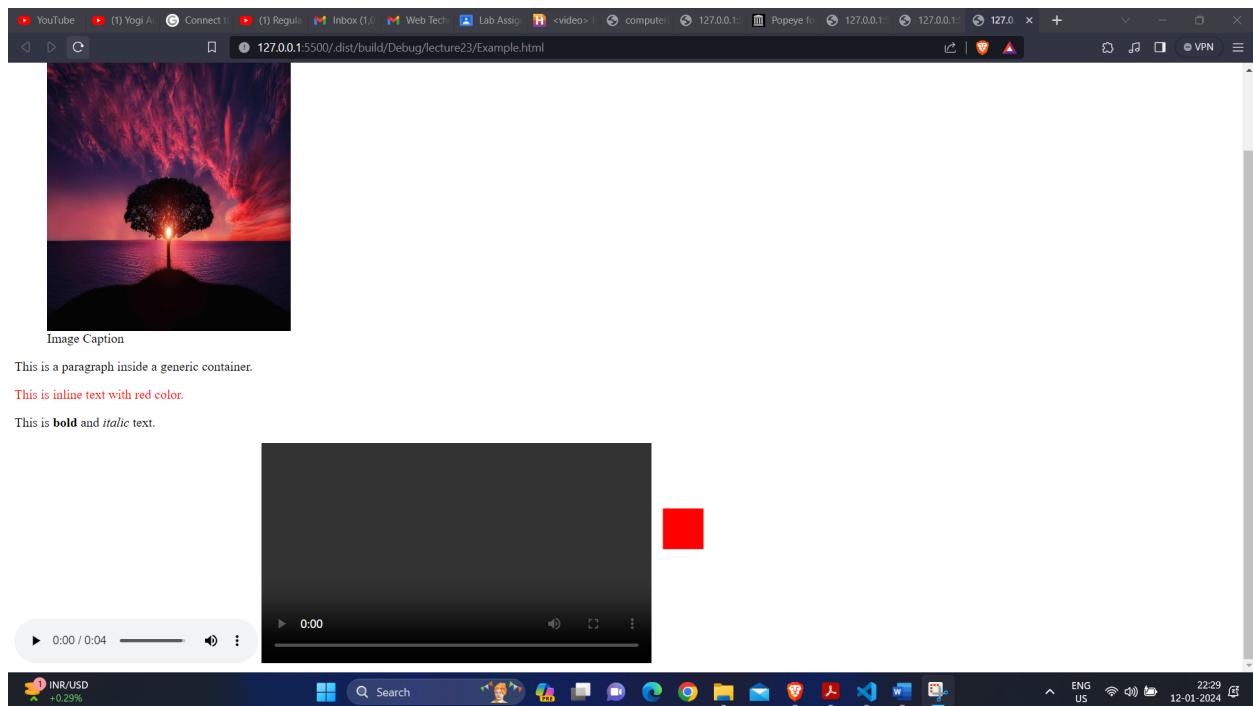
```
<script>
// Get the canvas element
var canvas = document.getElementById("myCanvas");
```

```
// Get the 2D rendering context
var ctx = canvas.getContext("2d");
// Perform drawing operations using the context
ctx.fillStyle = "red";
ctx.fillRect(10, 10, 50, 50);
</script>
```

The screenshot shows the Microsoft Visual Studio Code interface. The left sidebar displays a file tree for a C++ project named 'lecture23'. The 'EXPLORER' view shows files like 'Check_palindrom.cpp', 'Length_of_string.cpp', and 'reverse_string.cpp'. The 'TERMINAL' view shows a PowerShell prompt with the command 'PS C:\c\dist\build\Debug\lecture23'. The main editor area is titled 'Example.html' and contains the following HTML code:

```
.dist > build > Debug > lecture23 > Example.html > script
<igCaption>Image Caption</igCaption>
<figure>
<div id="container">
<p>This is a paragraph inside a generic container.</p>
</div>
<span style="color: red;">This is inline text with red color.</span>
<p>This is <b>bold</b> and <i>italic</i> text.</p>
<audio controls>
<source src="https://www.computerhope.com/jargon/m/example.mp3" type="audio/mp3">
Your browser does not support the audio tag.
</audio>
<video controls width="480" height="270">
<source src="https://archive.org/details/Popeye_forPresident" type="video/mp4">
Your browser does not support the video tag.
</video>
<canvas id="myCanvas" width="400" height="200"></canvas>
<script>
// Get the canvas element
var canvas = document.getElementById("myCanvas");
// Get the 2D rendering context
var ctx = canvas.getContext("2d");
// Perform drawing operations using the context
ctx.fillStyle = "red";
ctx.fillRect(10, 10, 50, 50);
</script>
```

Output



Example-14

```
function draw() {
    var canvas = document.getElementById("myCanvas");
    var ctx = canvas.getContext("2d");
    // Perform drawing operations
    requestAnimationFrame(draw); // Call draw function
again for the next animation
    frame
}
draw(); // Initial call to start the animation loop
<svg width="200" height="200">
    <!-- SVG content goes here -->
</svg>
<svg width="200" height="200">
    <rect width="100" height="100" fill="blue" />
    <circle cx="50" cy="50" r="40" fill="green" />
    <path d="M10 80 Q 95 10 180 80" fill="transparent" stroke="black" />
    <text x="20" y="40" font-family="Arial" font-size="20" fill="red">Hello, SVG!</text>
</svg>
```

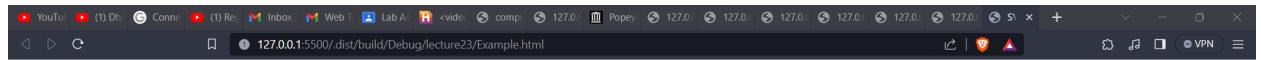
Output



Example-15

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>SVG Example</title>
</head>
<body>
<h1>SVG Example</h1>
<svg width="200" height="200">
<circle cx="100" cy="100" r="80" fill="orange" />
</svg>
<p>This is a simple SVG circle embedded in an HTML document.</p>
</body>
</html>
```

Output



SVG Example



This is a simple SVG circle embedded in an HTML document.

