

Web-dev Bootcamp (TIC)

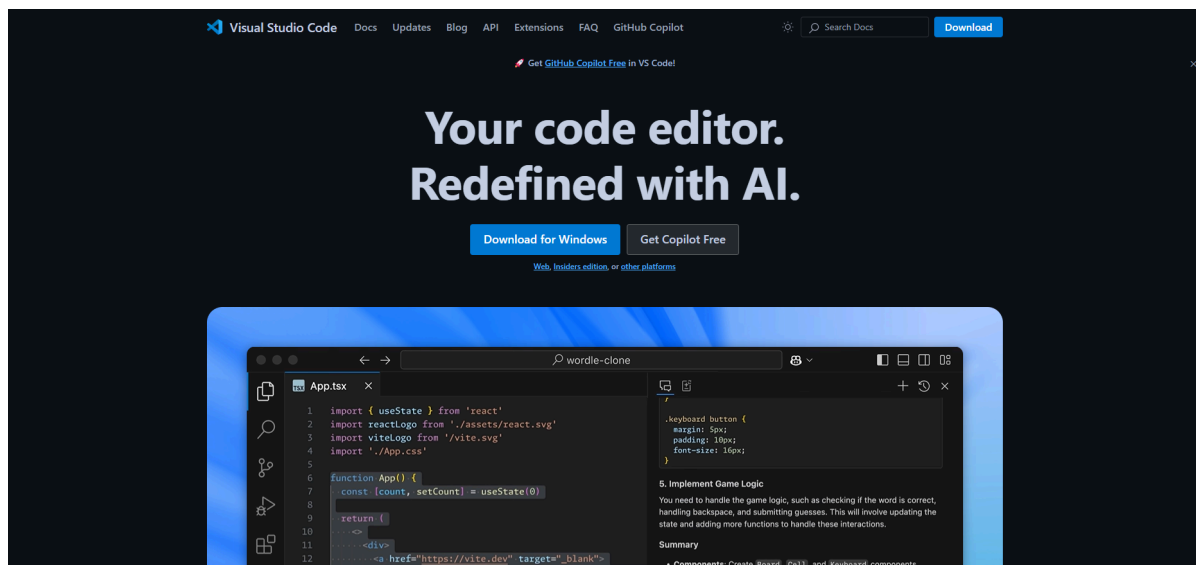
Just take a look at these websites

1. <https://www.gsap.com/>
2. <https://www.igloo.inc/>

▼ VS-CODE

VS code installation

Here's a simple step-by-step guide to download and install Visual Studio Code (VS Code) on Windows and Mac :



For Windows

1. Open your web browser

Go to <https://code.visualstudio.com>.

2. Download the installer

- Click the blue Download for Windows button.
- The installer (.exe file) will start downloading automatically.

1. Run the installer

- Go to your Downloads folder.
- Double-click the downloaded file (e.g., VSCodeSetup-x64-xxx.exe).

1. Follow installation steps

- Accept the license agreement.
- Check "Add to PATH" (this makes it easier to use VS Code with programming tools).
- Click Next until installation finishes.

1. Launch VS Code

- Check the box "Launch Visual Studio Code" and click Finish .
- VS Code will open and is ready to use!

For Mac

1. Open Safari/Chrome

Go to <https://code.visualstudio.com>.

2. Download for macOS

- Click the Download for Mac button.
- The file (.zip or .dmg) will download automatically.

1. Install VS Code

- If using .dmg :
 - Open the downloaded .dmg file.
 - Drag the Visual Studio Code icon to the Applications folder.
- If using .zip :
 - Unzip the file and move the app to Applications .

1. Open VS Code

- Go to Applications and double-click Visual Studio Code .
- If macOS warns about security, go to System Preferences > Security & Privacy > Allow .

1. Start coding!

- VS Code will open. You can create or open files/folders to begin.
-

Tips for Beginners

- Extensions : Install extensions like Python , JavaScript , or Live Server for coding help.
- Save your work : Always save files with the correct extension (e.g .py for Python).

▼ HTML (basics and tags)

Document Structure

These are the big blocks that hold everything together.

1. `<html>` : This is like the big box that holds everything on the website.
2. `<head>` : This is where secret stuff goes, like the title of the page or instructions for the browser.
3. `<title>` : This is the name of the website that shows up on the browser tab (like a book title).
4. `<body>` : This is where all the fun stuff you see on the website goes (like text, pictures, and buttons).
5. `<meta>` : This is like a tiny note for the browser about the website (e.g., what language it's in).

6. <link> : This connects the website to cool styles (like colors and fonts) or other files.
7. <style> : This is where you can add colors, fonts, and other designs to the website.
8. <script> : This is where you can add magic tricks (like animations or games) using JavaScript.

Welcome to My Website!

This is a paragraph.

Click the button to see magic!

Click Me

▼ Answer (Try writing code yourself first)

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8" />
    <meta name="description" content="This is my first website" />
    <title>My Awesome Website</title>
    <link rel="stylesheet" href="styles.css" />
  </head>
```

```
<body>
  <h1>Welcome to My Website!</h1>
  <p>This is a paragraph.</p>
  <p id="demo">Click the button to see magic!</p>
  <button onclick="showMagic()">Click Me</button>
</body>
</html>
```

Text Formatting

These blocks help make your text look awesome!

1. `<h1>` to `<h6>` : These are like headings for your page. `<h1>` is the biggest and most important, and `<h6>` is the smallest.
2. `<p>` : This is for writing paragraphs (like this one!).
3. `
` : This is like hitting "Enter" to go to the next line.
4. `<hr>` : This makes a cool line across the page to separate stuff.
5. `` : This makes text bold to show it's important.
6. `` : This makes text italic to show it's special.
7. `` : This also makes text bold , but just for looks.
8. `<i>` : This also makes text italic , but just for looks.
9. `<u>` : This underlines text.
10. `<s>` : This puts a line through text, like ~~this~~.
11. `<mark>` : This highlights text, like a yellow marker.
12. `<small>` : This makes text smaller.
13. `<sub>` : This makes text tiny and at the bottom, like H₂O.
14. `<sup>` : This makes text tiny and at the top, like 10².

This is a Heading 1 (Biggest)

This is a Heading 2

This is a Heading 3

This is a Heading 4

This is a Heading 5

This is a Heading 6 (Smallest)

This is a paragraph. It contains some **strong (bold)** text and *emphasized (italic)* text.

This is another paragraph with a line break.
Now we're on a new line!

This is a horizontal rule above. It separates content.

This text is **bold**, this is *italic*, and this is underlined.

This text has a ~~striketrough~~ effect.

This text is **highlighted** like a marker.

This text is smaller than the rest.

This is an example of subscript text (H₂O).

▼ Answer (Try writing code yourself first)

```
<!DOCTYPE html>
<html>
  <head>
    <title>Text Formatting Example</title>
  </head>
  <body>
    <h1>This is a Heading 1 (Biggest)</h1>
    <h2>This is a Heading 2</h2>
    <h3>This is a Heading 3</h3>
    <h4>This is a Heading 4</h4>
    <h5>This is a Heading 5</h5>
    <h6>This is a Heading 6 (Smallest)</h6>
```

```
<p>This is a paragraph. It contains some <strong>strong (bold)</strong> text and <em>emphasized (italic)</em> text.</p>
```

```
<p>This is another paragraph with a line break.<br>Now we're on a new line!</p>
```

```
<hr>
```

```
<p>This is a horizontal rule above. It separates content.</p>
```

```
<p>This text is <b>bold</b>, this is <i>italic</i>, and this is <u>underlined</u>.</p>
```

```
<p>This text has a <s>strikethrough</s> effect.</p>
```

```
<p>This text is <mark>highlighted</mark> like a marker.</p>
```

```
<p>This text is <small>smaller</small> than the rest.</p>
```

```
<p>This is an example of <sub>subscript</sub> text (H<sub>2</sub>O).</p>
```

```
<p>This is an example of <sup>superscript</sup> text (10<sup>2</sup>).</p>
```

```
</body>
```

```
</html>
```

Links and Anchors

These blocks help you connect to other pages or parts of the same page.

1. `<a>` : This creates a link to another page or website (like clicking on a word to go somewhere).

2. <nav> : This is a special section for links, like a menu at the top of a website.

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

Welcome to the Home Page!

This is the home section. [Click here](#) to go to the About section.

About Us

This is the about section. [Click here](#) to go to the Contact section.

Contact Us

This is the contact section. [Click here](#) to go back to the Home section.

Visit [Google](#) to search the web.

▼ Answer (Try writing code yourself first)

```
<!DOCTYPE html>
<html>
  <head>
    <title>Links and Navigation Example</title>
  </head>
  <body>
    <!-- Navigation Menu →
    <nav>
      <a href="#home">Home</a> |
      <a href="#about">About</a> |
      <a href="#contact">Contact</a>
    </nav>
```



```

<!-- Sections of the Page →
<section id="home">
  <h1>Welcome to the Home Page!</h1>
  <p>This is the home section. <a href="#about">Click here</a> to
go to the About section.</p>
</section>

<section id="about">
  <h1>About Us</h1>
  <p>This is the about section. <a href="#contact">Click here</a> t
o go to the Contact section.</p>
</section>

<section id="contact">
  <h1>Contact Us</h1>
  <p>This is the contact section. <a href="#home">Click here</a> t
o go back to the Home section.</p>
</section>

<!-- External Link →
<p>Visit <a href="https://www.google.com" target="_blank">Googl
e</a> to search the web.</p>
</body>
</html>

```

Lists

These blocks help you make lists, like a shopping list or a to-do list.

1. `` : This makes a bullet-point list (like • apples • bananas).
2. `` : This makes a numbered list (like 1. apples 2. bananas).
3. `` : This is each item in the list (like "apples" or "bananas").

4. <dl> : This is a special list for definitions (like a dictionary).
5. <dt> : This is the word you're defining (like "apple").
6. <dd> : This is the definition of the word (like "a red fruit").

My Lists

Shopping List

- Apples
- Bananas
- Milk

To-Do List

1. Wake up
2. Brush teeth
3. Have breakfast

Dictionary

Apple	A red or green fruit that grows on trees.
Banana	A long, yellow fruit that monkeys love.
Milk	A white liquid that comes from cows.

▼ Answer (Try writing code yourself first)

```
<!DOCTYPE html>
<html>
  <head>
    <title>Lists Example</title>
```

```
</head>
<body>
  <h1>My Lists</h1>

  <!-- Unordered List (Bullet Points) -->
  <h2>Shopping List</h2>
  <ul>
    <li>Apples</li>
    <li>Bananas</li>
    <li>Milk</li>
  </ul>

  <!-- Ordered List (Numbered) -->
  <h2>To-Do List</h2>
  <ol>
    <li>Wake up</li>
    <li>Brush teeth</li>
    <li>Have breakfast</li>
  </ol>

  <!-- Definition List (Dictionary Style) -->
  <h2>Dictionary</h2>
  <dl>
    <dt>Apple</dt>
    <dd>A red or green fruit that grows on trees.</dd>

    <dt>Banana</dt>
    <dd>A long, yellow fruit that monkeys love.</dd>

    <dt>Milk</dt>
    <dd>A white liquid that comes from cows.</dd>
  </dl>
</body>
</html>
```


Images and Multimedia

These blocks let you add pictures, videos, and sounds to your website.


1. `` : This adds a picture to your website.
2. `<figure>` : This is a box for holding pictures or diagrams.
3. `<figcaption>` : This adds a caption (like a label) to a picture or diagram.
4. `<picture>` : This lets you use different pictures for different screen sizes.
5. `<audio>` : This adds sound or music to your website.
6. `<video>` : This adds a video to your website.
7. `<source>` : This tells the browser where to find the picture, video, or sound.
8. `<track>` : This adds subtitles or captions to a video.
9. `<map>` : This makes parts of a picture clickable (like a map with clickable areas).
10. `<area>` : This defines the clickable parts of a picture.

Images and Multimedia


1. Simple Image

 Placeholder Image

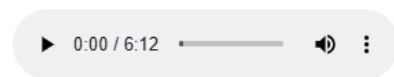
2. Figure with Caption

 Placeholder Image
This is a placeholder image with a caption.

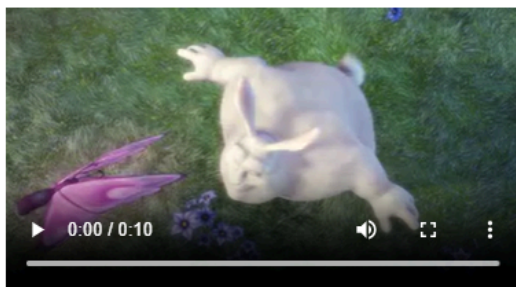
3. Responsive Image

 Responsive Image


4. Audio Player



5. Video Player



6. Clickable Image Map

 Clickable Image

▼ Answer (Try writing code yourself first)

```
<!DOCTYPE html>
<html>
  <head>
    <title>Images and Multimedia Example</title>
  </head>
  <body>
    <h1>Images and Multimedia</h1>
```

```

<!-- Image →
<h2>1. Simple Image</h2>


<!-- Figure with Caption →
<h2>2. Figure with Caption</h2>
<figure>
  
  <figcaption>This is a placeholder image with a caption.</figcaption>
</figure>

<!-- Picture for Responsive Images →
<h2>3. Responsive Image</h2>
<picture>
  <source media="(min-width: 800px)" srcset="https://via.placeholder.com/800">
  <source media="(min-width: 500px)" srcset="https://via.placeholder.com/500">
  
</picture>

<!-- Audio →
<h2>4. Audio Player</h2>
<audio controls>
  <source src="https://www.soundhelix.com/examples/mp3/SoundHelix-Song-1.mp3" type="audio/mpeg">
  Your browser does not support the audio element.
</audio>

<!-- Video with Subtitles →
<h2>5. Video Player</h2>

```

```

<video controls width="400">
  <source src="https://www.w3schools.com/html/mov_bbb.mp4" type="video/mp4">
  <track src="https://www.w3schools.com/html/subtitles_en.vtt" kind="subtitles" srclang="en" label="English">
  Your browser does not support the video element.
</video>

<!-- Image Map -->
<h2>6. Clickable Image Map</h2>

<map name="imagemap">
  <area shape="rect" coords="0,0,200,200" href="https://www.google.com" alt="Google">
  <area shape="circle" coords="300,100,50" href="https://www.wikipedia.org" alt="Wikipedia">
</map>
</body>
</html>

```

Tables

These blocks help you create tables, like a grid for organizing information.

1. `<table>` : This is the whole table.
2. `<caption>` : This adds a title to the table.
3. `<thead>` : This is the header row of the table (like the top row with titles).
4. `<tbody>` : This is the main part of the table with all the data.
5. `<tfoot>` : This is the footer row of the table (like the bottom row with totals).
6. `<tr>` : This is a row in the table.

7. <th> : This is a header cell in the table (like a title for a column).
8. <td> : This is a regular cell in the table with data.
9. <col> : This sets the width or style of a column.
10. <colgroup> : This groups columns together to style them.

Table Example

Monthly Sales Report		
Month	Sales	Profit
January	\$10,000	\$2,000
February	\$12,000	\$3,000
March	\$15,000	\$4,000
Total	\$37,000	\$9,000

▼ Answer (Try writing code yourself first)

```
<!DOCTYPE html>
<html>
  <head>
    <title>Table Example</title>

  </head>
  <body>
    <h1>Table Example</h1>

    <!-- Table →
    <table>
```



```

<!-- Caption →
<caption>Monthly Sales Report</caption>

<!-- Column Grouping →
<colgroup>
  <col span="1" style="background-color: #f9f9f9;">
  <col span="2" class="highlight">
</colgroup>

<!-- Table Header →
<thead>
  <tr>
    <th>Month</th>
    <th>Sales</th>
    <th>Profit</th>
  </tr>
</thead>

<!-- Table Body →
<tbody>
  <tr>
    <td>January</td>
    <td>$10,000</td>
    <td>$2,000</td>
  </tr>
  <tr>
    <td>February</td>
    <td>$12,000</td>
    <td>$3,000</td>
  </tr>
  <tr>
    <td>March</td>
    <td>$15,000</td>
    <td>$4,000</td>
  </tr>
</tbody>

```

```
<!-- Table Footer →  
<tfoot>  
  <tr>  
    <th>Total</th>  
    <td>$37,000</td>  
    <td>$9,000</td>  
  </tr>  
</tfoot>  
</table>  
</body>  
</html>
```

Forms

These blocks let you create forms, like a sign-up sheet or a quiz.

1. `<form>` : This is the box that holds all the questions or inputs.
2. `<input>` : This is where you type answers (like your name or email).
3. `<textarea>` : This is a big box for typing longer answers.
4. `<button>` : This is a clickable button (like "Submit").
5. `<label>` : This is a label for an input (like "Name:").
6. `<fieldset>` : This groups related inputs together (like all the questions about your address).
7. `<legend>` : This adds a title to the group of inputs.
8. `<select>` : This creates a dropdown menu (like choosing your favorite color).
9. `<optgroup>` : This groups options in a dropdown menu (like "Fruits" and "Vegetables").
10. `<option>` : This is one choice in a dropdown menu (like "Apple").

11. `<datalist>` : This gives suggestions when you type in an input box.
12. `<output>` : This shows the result of a calculation (like "Total: \$10").
13. `<progress>` : This shows a progress bar (like how much of a game you've completed).
14. `<meter>` : This shows a measurement (like how full a gas tank is).

Form Example

Name:

Bio:

Contact Information

Email:

Phone:

Favorite Food:

Favorite Browser:

Progress:

Fuel Level:

Number 1: Number 2: 30

▼ Answer (Try writing code yourself first)

```
<!DOCTYPE html>
<html>
  <head>
    <title>Form Example</title>
  </head>
```

```

<body>
  <h1>Form Example</h1>

  <!-- Form →
  <form>
    <!-- Text Input →
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" placeholder="Enter y
our name"><br><br>

    <!-- Textarea →
    <label for="bio">Bio:</label><br>
    <textarea id="bio" name="bio" rows="4" cols="50" placeholder
="Tell us about yourself"></textarea><br><br>

    <!-- Fieldset and Legend →
    <fieldset>
      <legend>Contact Information</legend>
      <label for="email">Email:</label>
      <input type="email" id="email" name="email" placeholder="Enter
your email"><br><br>
      <label for="phone">Phone:</label>
      <input type="tel" id="phone" name="phone" placeholder="Enter
your phone number">
    </fieldset><br>

    <!-- Dropdown Menu →
    <label for="food">Favorite Food:</label>
    <select id="food" name="food">
      <optgroup label="Fruits">
        <option value="apple">Apple</option>
        <option value="banana">Banana</option>
      </optgroup>
      <optgroup label="Vegetables">
        <option value="carrot">Carrot</option>
        <option value="broccoli">Broccoli</option>

```

```

    </optgroup>
  </select><br><br>

  <!-- Datalist →
  <label for="browser">Favorite Browser:</label>
  <input list="browsers" id="browser" name="browser" placeholder
  ="Choose or type">
    <datalist id="browsers">
      <option value="Chrome">
      <option value="Firefox">
      <option value="Safari">
    </datalist><br><br>

  <!-- Progress Bar →
  <label for="progress">Progress:</label>
  <progress id="progress" value="50" max="100">50%</progress>
  <br><br>

  <!-- Meter →
  <label for="meter">Fuel Level:</label>
  <meter id="meter" value="75" min="0" max="100">75%</meter>
  <br><br>

  <!-- Output →
  <label for="num1">Number 1:</label>
  <input type="number" id="num1" name="num1" value="10">
  <label for="num2">Number 2:</label>
  <input type="number" id="num2" name="num2" value="20">
  <output name="result" for="num1 num2">30</output><br><br>

  <!-- Button →
  <button type="submit">Submit</button>
</form>
</body>
</html>

```

Semantic Elements (HTML5)

These blocks help organize your website and make it easier to understand.

1. `<header>` : This is the top part of the website (like the title and logo).
2. `<footer>` : This is the bottom part of the website (like copyright info).
3. `<main>` : This is the main content of the website (like the story or pictures).
4. `<article>` : This is a self-contained piece of content (like a blog post).
5. `<section>` : This is a group of related content (like a chapter in a book).
6. `<aside>` : This is extra content that's related but not the main focus (like a fun fact).

My Awesome Website

Welcome to the best website ever!

About Me

Hi, I'm a web developer who loves creating amazing websites. This is my story...

My Hobbies

I enjoy coding, reading, and playing video games.

Fun Fact

Did you know? The first website was published in 1991!

© 2023 My Awesome Website. All rights reserved.

▼ Answer (Try writing code yourself first)

```
<!DOCTYPE html>
<html>
  <head>
    <title>Semantic Elements Example</title>
  </head>
  <body>
    <!-- Header →
    <header>
      <h1>My Awesome Website</h1>
      <p>Welcome to the best website ever!</p>
    </header>

    <!-- Main Content →
```

```

<main>
  <!-- Article →
  <article>
    <h2>About Me</h2>
    <p>Hi, I'm a web developer who loves creating amazing websites. This is my story...</p>
  </article>

  <!-- Section →
  <section>
    <h2>My Hobbies</h2>
    <p>I enjoy coding, reading, and playing video games.</p>
  </section>

  <!-- Aside →
  <aside>
    <h3>Fun Fact</h3>
    <p>Did you know? The first website was published in 1991!</p>
  </aside>
</main>

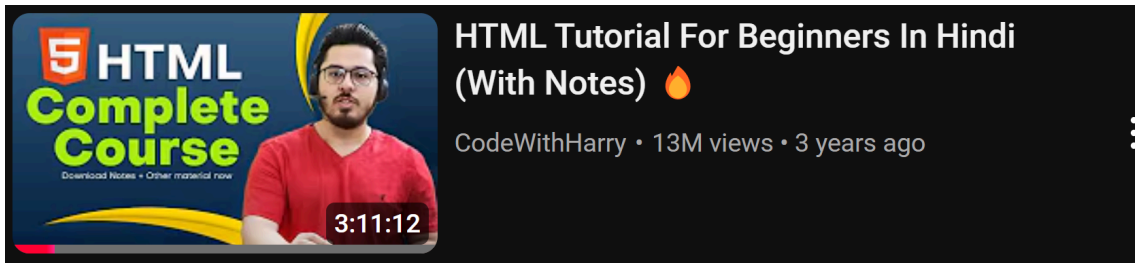
<!-- Footer →
<footer>
  <p>&copy; 2023 My Awesome Website. All rights reserved.</p>
</footer>
</body>
</html>

```

▼ VIDEO CONTENT

▼ CODE WITH HARRY

VIDEO :-



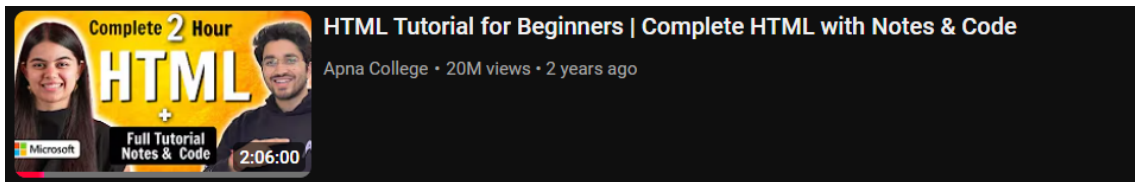
https://youtu.be/BsDoLVMnmZs?si=6Vtyt_bZ-ilu86Tf

NOTES :-

<https://www.codewithharry.com/notes/>

▼ APNA COLLEGE

VIDEO :-



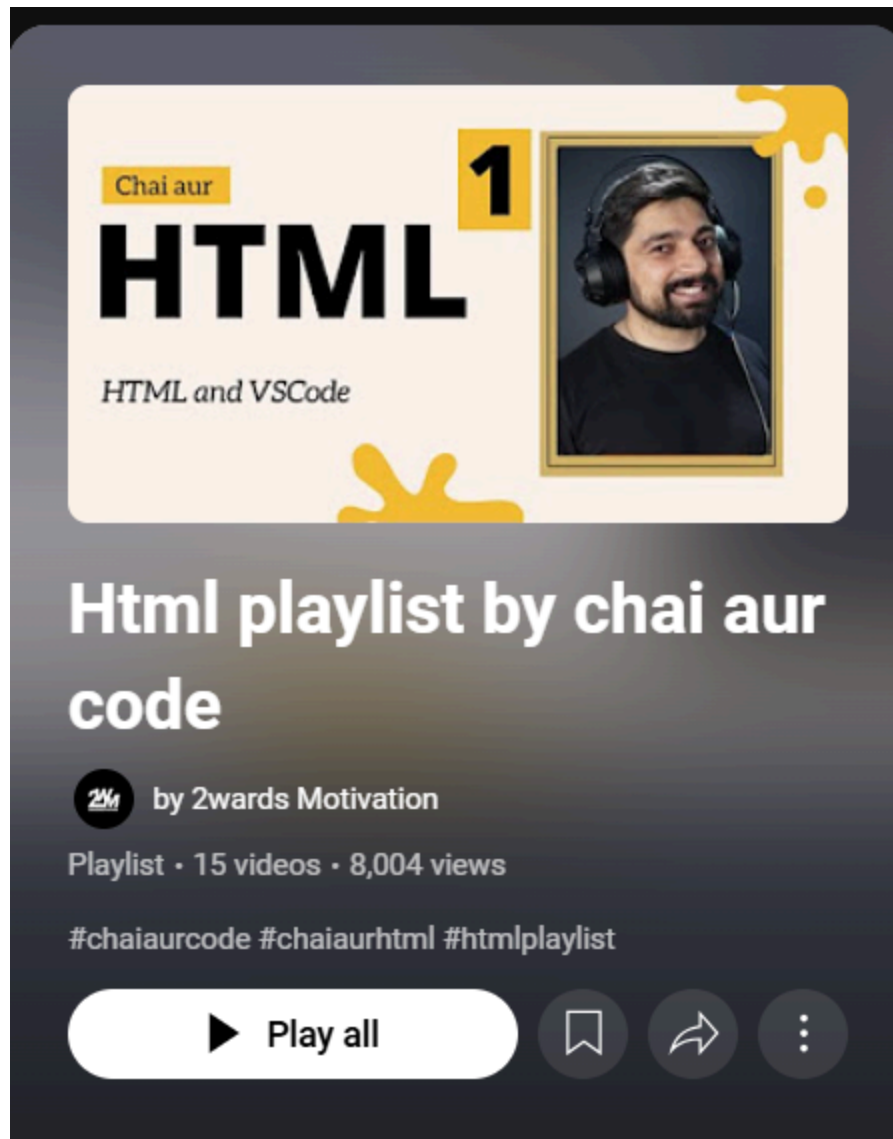
https://youtu.be/BsDoLVMnmZs?si=6Vtyt_bZ-ilu86Tf

NOTES :-

<https://drive.google.com/drive/folder...>

▼ CHAI AUR COD

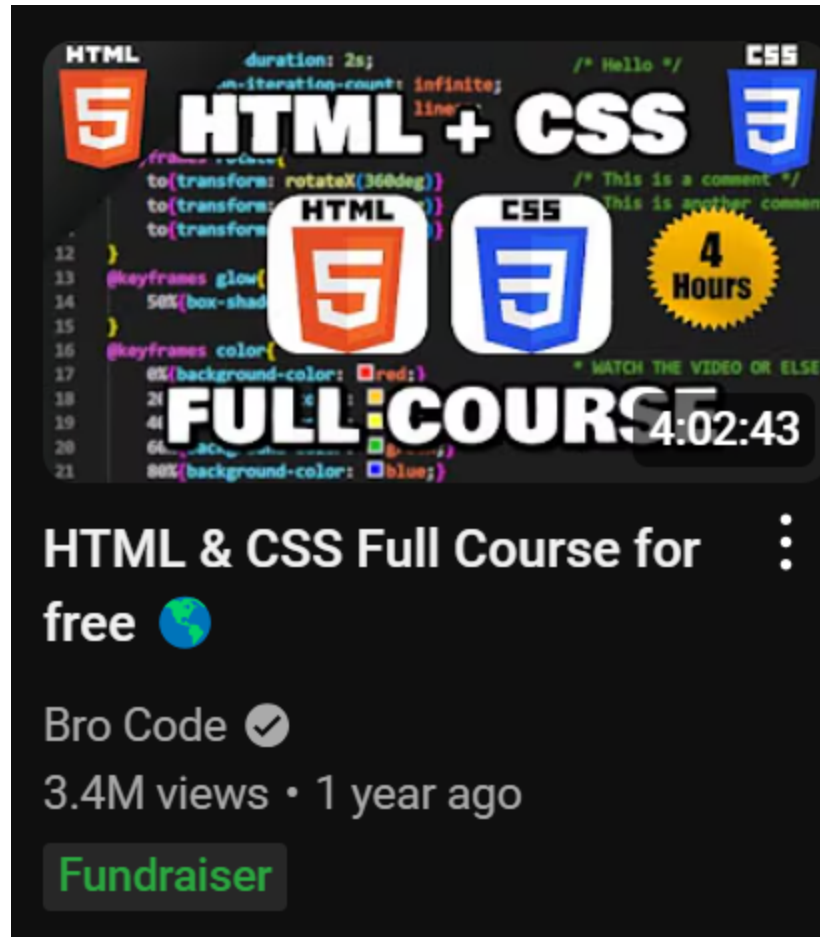
VIDEO :-



<https://youtube.com/playlist?list=PLKZJAqRtIIIIG58B1cLWYezilkbPJmDiIX&si=7czVvUTD1YvSfson>

▼ BRO CODE (English)

VIDEO:-



https://youtu.be/HD13eq_Pmp8?si=H5F2z-wu19SEXGNx

▼ PROJECT

▼ LEVEL 1

-

Task: Create a simple webpage that displays your name, a short bio, and a profile picture.

John Doe

Hi, I'm a computer science student who loves coding and building projects!



▼ LEVEL 2

- **Task:** Design a basic contact form with fields for name, email, and a message. Include a submit button.

Contact Me

Name:

Email:

Message:

▼ LEVEL 3

- **Task:** Design a basic contact form with fields for name, email, and a message. Include a submit button.

My College Timetable

Time	Monday	Tuesday	Wednesday
9:00 AM	Math	Physics	Chemistry
11:00 AM	English	Math	Biology

▼ LEVEL 4

- **Task:** Create a webpage that embeds a YouTube video, an audio file, and an image gallery.

My Media Page

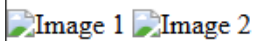
YouTube Video



Audio






Image Gallery



▼ LEVEL 5

- **Task:** Build a webpage with a list of your favorite books or movies. Include photos of them goal is reach to their official websites or trailers after clicking on it.

My Favorite Movies

- A trailer for The Godfather 50 Years anniversary. It features a close-up of Al Pacino as Michael Corleone in a tuxedo, looking serious. The text "The Godfather 50 YEARS" is in the top left, and "TRAILER" is in the bottom left.
- A movie poster for Chelaava. It features a dark, textured background with a small, glowing white figure in the center. The title "CHELAAVA" is written in a stylized, golden font at the bottom.
- A movie poster for Mrs. It features a woman in a patterned dress holding a bouquet of flowers, looking up. The title "Mrs." is written in a large, golden font at the bottom.

▼ LEVEL 6

- **Task:** Design a survey form with different input types (radio buttons, checkboxes, dropdowns, date picker, etc.).


Survey Form

Name:

Email:

Gender: ☐ Male ☒ Female

Date of Birth: 

Country: 

▼ LEVEL 7

- **Task:** Build a multi-page website (e.g., a portfolio or a small business site) with a navigation menu linking all pages. add much as much you want and try to add more content.

Welcome to My Website

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

About Me

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

This is the about page.

Contact Me

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

Email: example@example.com

▼ LEVEL 8

- **Task:** Create a fully functional HTML-only website for a fictional event (e.g., a music festival or tech conference). Include a homepage, schedule, speaker bios, and a registration form.

Tech Conference 2023

[Home](#) | [Schedule](#) | [Speakers](#) | [Register](#)

Welcome to the Tech Conference

Join us for an exciting event featuring the latest in technology and innovation.

Schedule

Time	Event
9:00 AM	Keynote Speech
11:00 AM	Workshop: AI and Machine Learning

Speakers

- John Doe - AI Expert
- Jane Smith - Web Development Guru

Register

Name:

Email:

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▼ LEVEL 9

Zerodha Website (Try to recreate this website using only HTML)

▼ LEVEL 10

Zerodha Website (Try to recreate this website using HTML and CSS)

▼ ONLY FOR INTERMEDIATE

Create any 1 websites from following list

(Try to recreate this website pixel perfect)

1. VS-code

2. Coolors

- <https://coolors.co/>

3. Groww

- <https://groww.in/>

