

WEB DEVELOPMENT

INTRODUCTION TO WEB DEVELOPMENT

- ✓ Web development is to build, create, and maintaining the websites and web applications.
 - ✓ **Web:** websites, web pages or anything that works over the internet.
 - ✓ **Development:** Building the application.

FRONTEND

- ✓ HTML → Page — Create
 - ✓ CSS → Styles — design
 - ✓ JAVASCRIPT
 - ✓ BOOTSTRAP

BACKEND

- ✓ PYTHON
 - ✓ PHP
 - ✓ JAVA
 - ✓ NODE JS

FRAMEWORK

- ✓ DIANGO

WEBSITE

- ✓ A website is a collection of publicly accessible, interlinked Web pages.
 - ✓ It can be created and maintained by an individual, business or organizations.

WEB PAGE ✓

- ✓ A web page is a simple document displayable by a browser.
 - ✓ Webpages are written in the HTML language.

WEB APPLICATIONS

- ✓ The applications which will provide services over the web.

FRONTEND

HTML

- Today*
- ✓ HTML stands for Hyper Text Markup Language.
 - ✓ It is the standard markup language for creating Web pages.
 - ✓ It describes the structure of a Web page.
 - ✓ Hypertext means machine readable text.
 - ✓ HTML is Structuring of contents using machine readable text.

HTML TAGS

- ✓ Basic tags
- ✓ Image tags
- ✓ List tags
- ✓ Formatting tags
- ✓ Link or Navigation tags
- ✓ Form & Input tags
- ✓ Table tags
- ✓ Media tags
- ✓ Meta tags
- ✓ Style tags
- ✓ General tags

BASIC TAGS

<u><!DOC TYPE></u>	Document Type.
<u><html></u>	Root of Html
<u><title></u>	Title of web page
<u><head></u>	Head of an html
<u><body></u>	Body of web page
<u><h></u>	Heading tag (<u><h1></u>)
<u><p></u>	Paragraph
<u><!...--></u>	Write comments

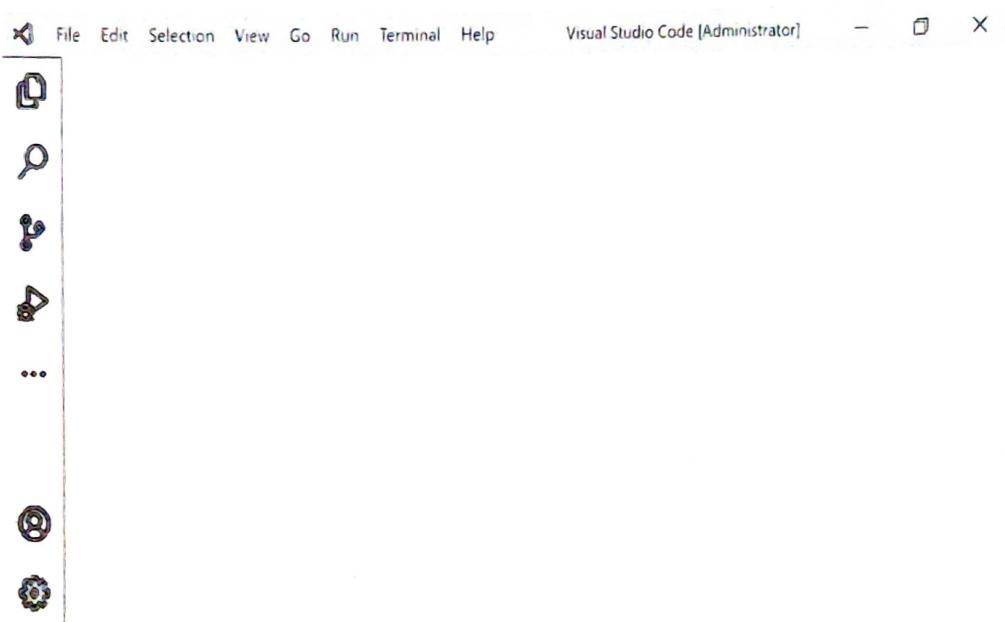
2

----- WEB DEVELOPMENT -----

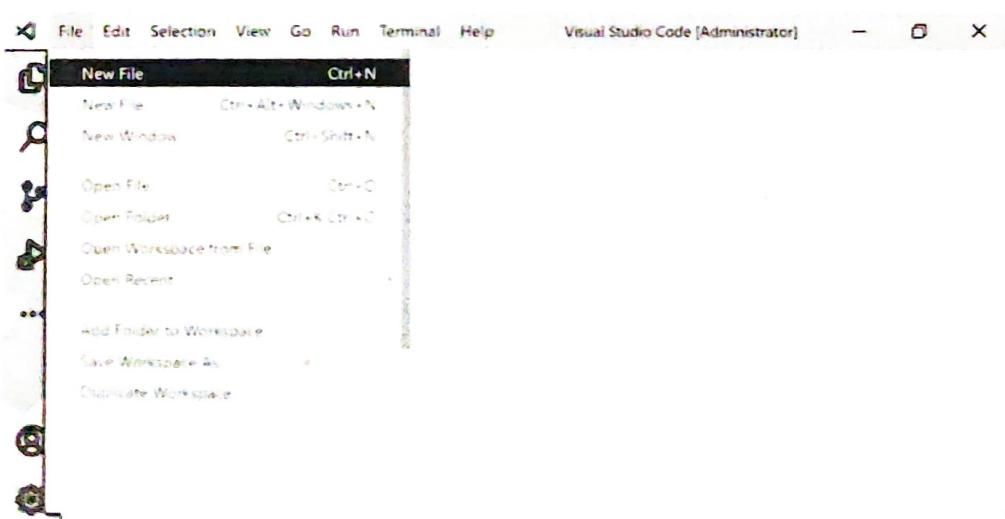
 	Line break
<hr>	Horizontal line

INSTALLING VISUAL STUDIO CODE

1. Download and Install Visual studio code.
2. Open the Visual studio code.



3. Click File and click New File.



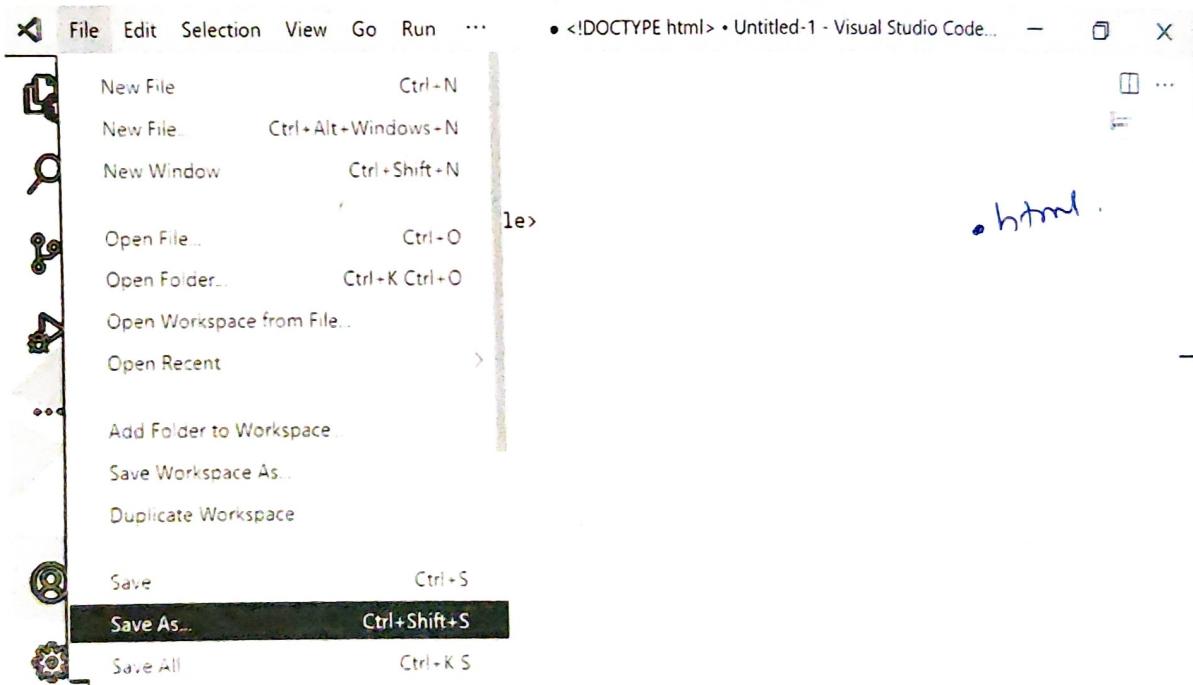
3

WEB DEVELOPMENT

4. Type the html document.

```
<!DOCTYPE html> Untitled-1
<html>
<head>
<title>SYSTECH GROUP</title>
</head>
<body>
<h1>WEB DEVELOPMENT</h1>
<p>Django TRAINING</p>
</body>
</html>
```

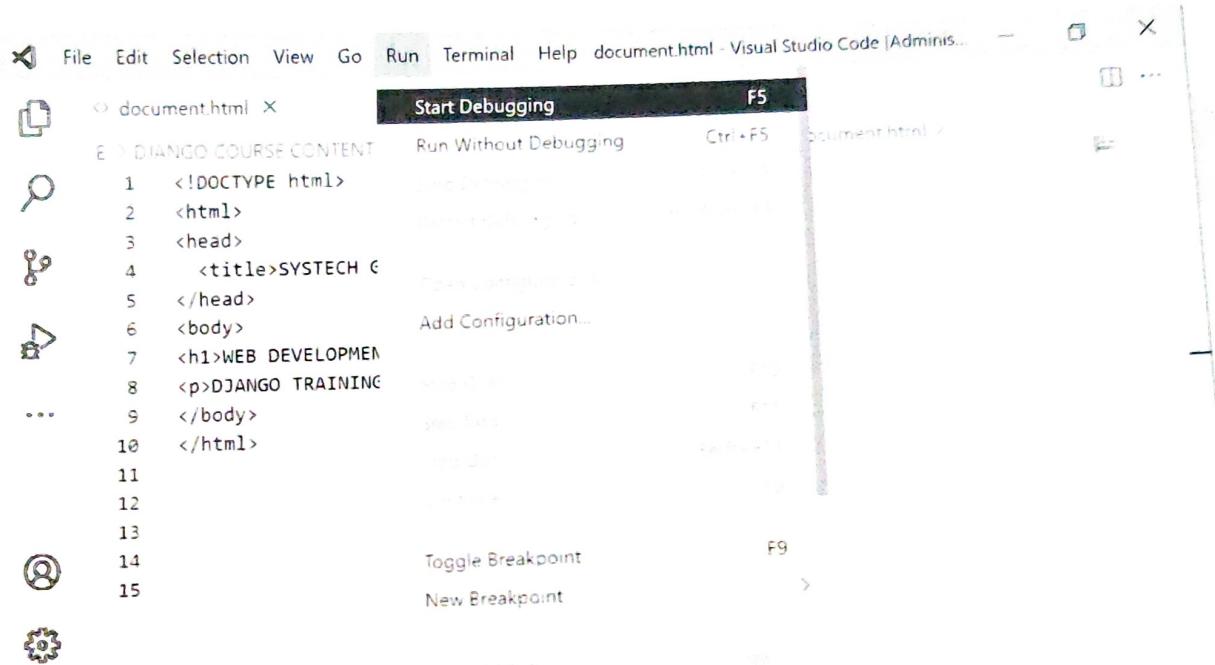
5. Click File and Click Save as.



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6. Enter File name and click **Save** (Ex: filename.html)

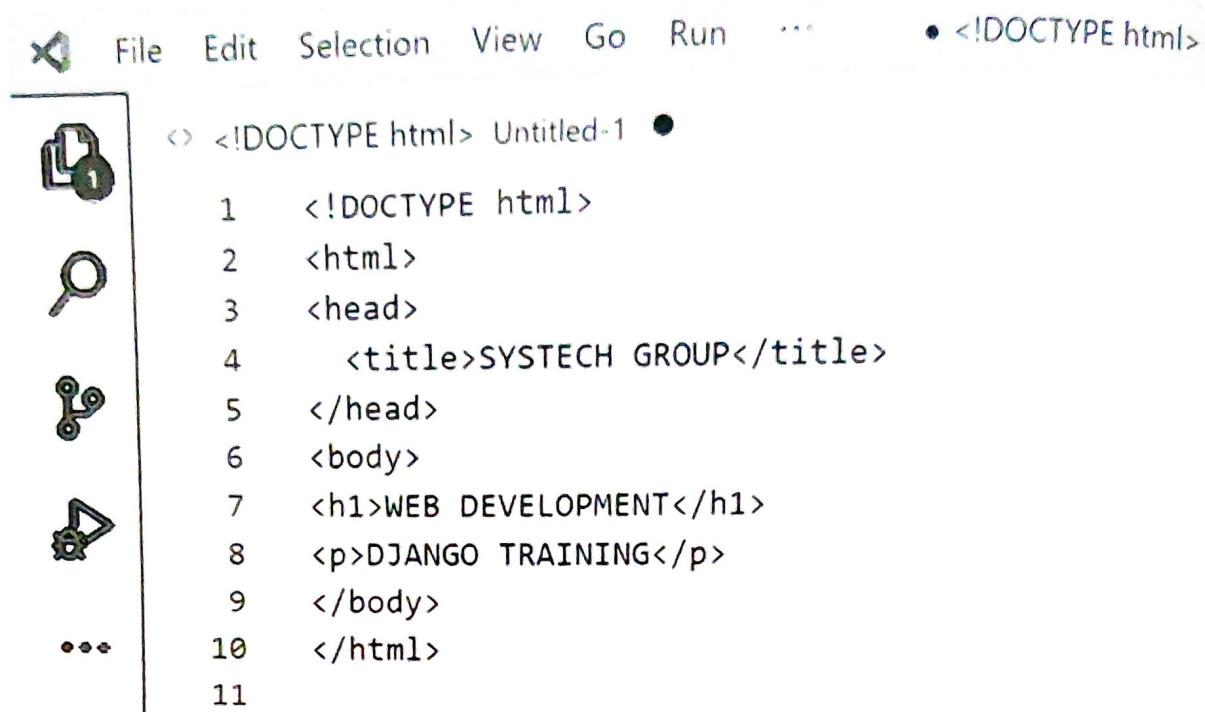
7. Click **Run** and Click **Start Debugging**.



8. Verify the Result in any browser.



1. PROJECT: Creating a Web page



```

File Edit Selection View Go Run ...
• <!DOCTYPE html>
<!DOCTYPE html> Untitled-1 •
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>SYSTECH GROUP</title>
5 </head>
6 <body>
7   <h1>WEB DEVELOPMENT</h1>
8   <p>DJANGO TRAINING</p>
9 </body>
10 </html>
11

```

OUTPUT:



----- WEB DEVELOPMENT -----

2. PROJECT: Creating a Web page with heading tag

```
<!DOCTYPE html>
<html>
<head>
<title>SYSTECH GROUP</title>
</head>
<body>
<h1>DJANGO</h1>
<h2>PYTHON</h2>
<h3>SQL</h3>
<h4>CSS</h4>
<h5>HTML</h5>
<h6>WEB DEVELOPMENT</h6>
<h8>TRAINING</h8>
<p>DJANGO TRAINING</p>
</body>
</html>
```

OUTPUT:



----- WEB DEVELOPMENT -----

3. PROJECT: Creating a web page with styles

Inline CSS

Internal

External

```
<!DOCTYPE html> X
<html>
<head>
<title >SYSTECH GROUP</title>
</head>
<body> ZnW
<h1 style="color: blue; font-size: xx-large; font-family: 'Times New Roman', Times, serif; text-align: center;">DJANGO</h1>
<h2 style="text-align: center; font-family: 'Times New Roman', Times, serif;">PYTHON</h2>
<h3 style="text-align: center; font-family: 'Times New Roman', Times, serif;">SQL</h3>
<h4 style="text-align: center; font-family: 'Times New Roman', Times, serif;">CSS</h4>
<h5 style="text-align: center; font-family: 'Times New Roman', Times, serif;">HTML</h5>
<h6 style="text-align: center; font-family: 'Times New Roman', Times, serif;">WEB DEVELOPMENT</h6>
<h8>TRAINING</h8>
<p>DJANGO TRAINING</p>
</body>
</html>
```

OUTPUT:



----- WEB DEVELOPMENT -----

4. PROJECT: Creating a web page with CSS

```
<html>
<head>
<style>
p {
    color: white;
    text-indent: 30px;
    text-align: center;
    font-family: 'Times New Roman', Times, serif;
    font-size: xx-large;
    background-color: blue;
}
</style>
</head>
<body>
<p>SYSTECH GROUP</p>
<p>SOFTWARE DEVELOPMENT TRAINING: DJANGO, PYTHON, C, C++, SQL, HTML, CSS</p>
</body>
</html>
```

OUTPUT:



5. PROJECT: Creating a web page with break tag

```
<html>
<head>
<style>
p {
    color: white;
    text-indent: 30px;
    text-align: center;
    font-family: 'Times New Roman', Times, serif;
    font-size: xx-large;
    background-color: blue;
}
</style>
</head>
<body>
<p>SYSTECH GROUP</p>
<p>SOFTWARE DEVELOPMENT TRAINING:<br> DJANGO<br> PYTHON<br> C<br> C++<br> SQL<br> HTML<br> CSS</p>
</body>
</html>
```

OUTPUT:



6. PROJECT: Creating a web page with <hr> tag

```
<html>
<head>
<style>
p {
    color:white;
    text-indent: 30px;
    text-align: center;
    font-family: 'Times New Roman', Times, serif;
    font-size: xx-large;
    background-color: #ebf7ba;
}
</style>
</head>
<body>
<p>SYSTECH GROUP</p>
<p>SOFTWARE DEVELOPMENT TRAINING:<hr> DJANGO<hr>PYTHON<hr>C<hr>C++<hr>SQL<hr>HTML<hr>CSS<hr></p>
</body>
</html>
```

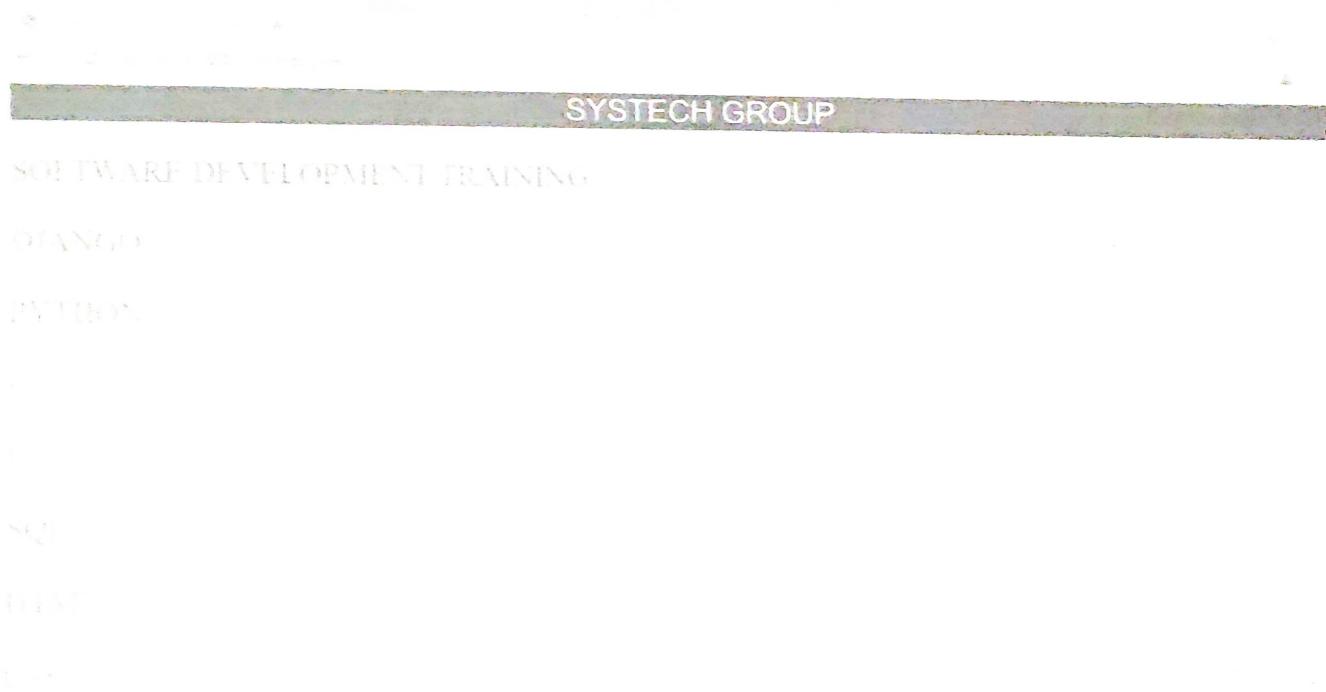
OUTPUT:



7. PROJECT: Creating a web page with comment tag

```
<html>
<head>
<style>
p {
    color: black; text-indent: 30px; text-align: center; background-color: white;
    font-family: Arial, Helvetica, sans-serif; font-size: xx-large;
}
p1 {
    color: red; text-indent: 30px; text-align: center;
    font-family: 'Times New Roman', Times, serif; font-size: xx-large;
}
</style>
</head>
<body>
<p>SYSTECH GROUP</p>
<!--Welcome to systech-->
<p1>SOFTWARE DEVELOPMENT TRAINING:<br> DJANGO<br>PYTHON<br>C<br>C++<br>SQL<br>HTML<br>CSS<br></p1>
</body>
</html>
```

OUTPUT:



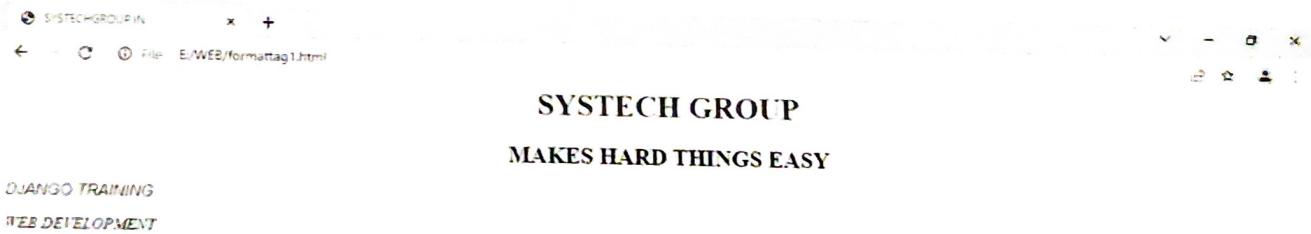
FORMATTING TAGS

	Bold
	Define important text
<i>	Italic form
	Emphasis on the text
<u>	Underline
<sup>	Superscripted text
<sub>	Subscripted text
<pre>	Preformatted text
<small>	Smaller text
<abbr>	Abbreviation or acronym
<code>	Computer code
<kbd>	Used to display keyboard input
	Remove
<ins>	insert
<mark>	Highlight specific text
<blockquote>	Quotation of a text
<s>	Text that is incorrect
<address>	Address or contact of user
<cite>	Title of journal, book, poem, etc
<dfn>	Defined with in content
<meter>	Meter scale
<progress>	Progress of work
<q>	Quotation around the text
<samp>	Sample output
<template>	Hide a block of code
<time>	Define a specific time
<var>	Some variable

8. PROJECT: Creating a web page with formatting tags

```
<html style="background-color: #cornsilk;">
<title>SYSTECHGROUP.IN</title>
<head>
    <h1 style="color: #red;text-align: center;">
        <b>SYSTECH GROUP</b>
    </h1>
    <h2 style="text-align: center;"><strong>MAKES HARD THINGS EASY</strong></h2>
</head>
<body>
    <p style="color: #blue;font-family: Arial, Helvetica, sans-serif;">
        <i>DJANGO TRAINING</i>
    </p>
    <em>WEB DEVELOPMENT</em>
</body>
</html>
```

OUTPUT:

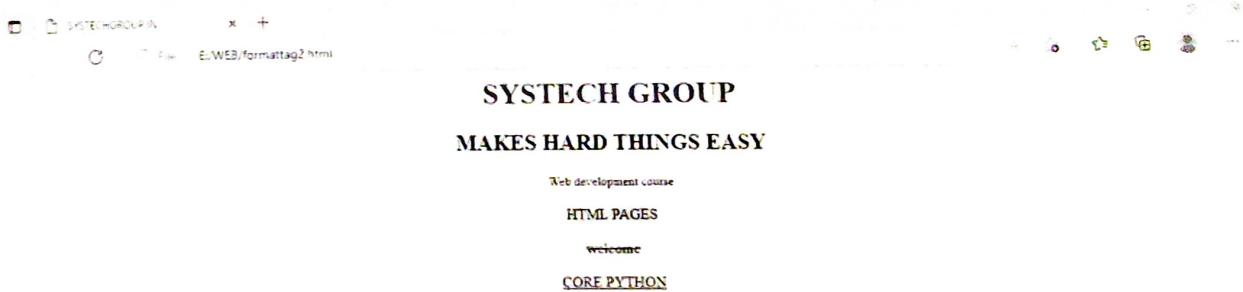


----- WEB DEVELOPMENT -----

9. PROJECT: Creating a web page for formatting tags

```
<html style="background-color:#effac3;">
<title>SYSTECHGROUP.IN</title>
<head>
    <h1 style="color: red;text-align: center;">
        <b>SYSTECH GROUP</b>
    </h1>
    <h2 style="text-align: center;"><strong>MAKES HARD THINGS EASY</strong></h2>
</head>
<body style="text-align: center;">
    <small>Web development course</small><br><br>
    <mark>HTML PAGES</mark><br><br>
    <del>welcome</del><br><br>
    <ins>CORE PYTHON</ins>
</body>
</html>
```

OUTPUT:



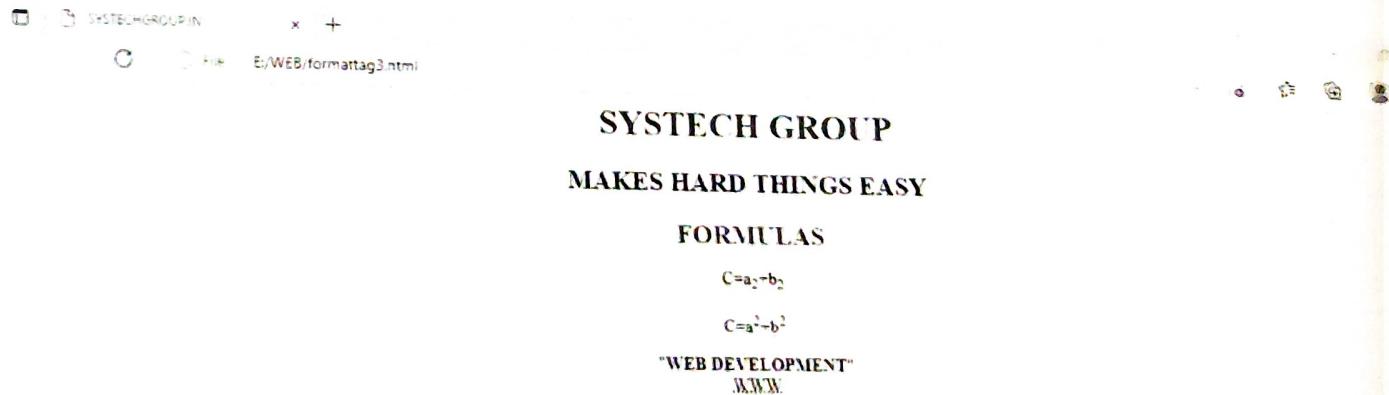
10. PROJECT: Creating a web page with formatting tags

```

<html style="background-color:#effacc;">
<title>SYSTECHGROUP.IN</title>
<head>
    <h1 style="color: red;text-align: center;">
        <b>SYSTECH GROUP</b>
    </h1>
    <h2 style="text-align: center;"><strong>MAKES HARD THINGS EASY</strong></h2>
</head>
<body style="text-align: center;">
    <h1 style="color: red;font-family: 'Times New Roman', Times, serif;font-size: x-large">
        FORMULAS</h1>
    <p>C=a<sub>2</sub>+b<sub>2</sub> </p>
    <p>C=a<sup>2</sup>+b<sup>2</sup> </p>
    <q><b>WEB DEVELOPMENT</b></q><br>
    <abbr title="World Wide Web">WWW</abbr>
</body>
</html>

```

OUTPUT:

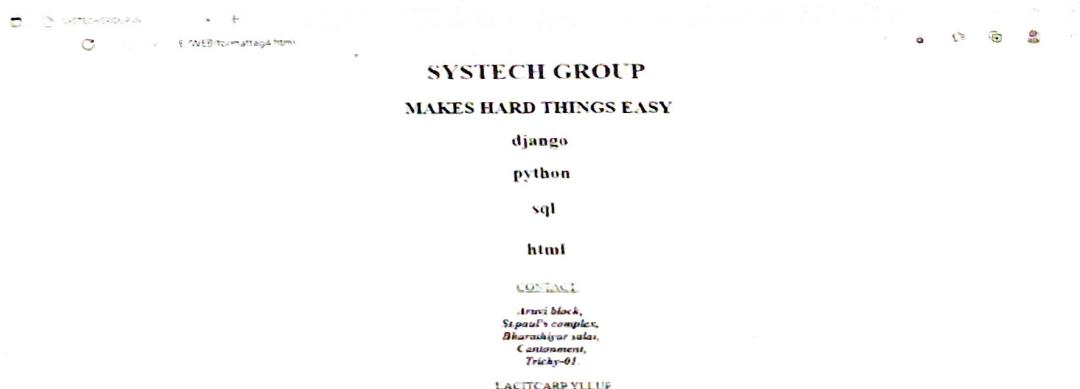


----- WEB DEVELOPMENT -----

11. PROJECT: Creating a web page with formatting tags

```
<html style="background-color:#effacd;">
<title>SYSTECHGROUP.IN</title>
<head>
    <h1 style="color: red;text-align: center;">
        <b>SYSTECH GROUP</b>
    </h1>
    <h2 style="text-align: center;"><strong>MAKES HARD THINGS EASY</strong></h2>
</head>
<body style="text-align: center;">
    <h1 style="color: red;font-family: 'Times New Roman', Times, serif;font-size: x-large;">
        django</h1>
    <h2 style="color: red;font-family: 'Times New Roman', Times, serif;font-size: x-large;">
        python</h2>
    <h3 style="color: red;font-family: 'Times New Roman', Times, serif;font-size: x-large;">
        sql</h3>
    <h4 style="color: red;font-family: 'Times New Roman', Times, serif;font-size: x-large;">
        html</h4>
</body>
<p style="color:red;"><u>CONTACT:</u></p>
<b><address>Aruvi block,<br>
    St.paul's complex,<br>
    Bharathiya salai,<br>
    Cantonment,<br>
    Trichy-01.</address></b><br>
<bdo dir="rtl">FULLY PRACTICAL</bdo>
</html>
```

OUTPUT:



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Hardware & Networking Academy (P) Ltd

Robotics & IOT Solutions

Web Designing SEO & Digital Marketing Solutions

Mechatronics & AI Solutions

Software Technologies

TRICHY

Aruvi Block, St. Paul's Complex, Bharathiya Salai, Cantonment, Trichy - 1.

0431 - 241 0960

75022 02555

contact@systechgroup.in

COIMBATORE

Ajay Building, 9th Street, Cross Cut Road, Gandhipuram, Coimbatore - 12.

0422 - 249 3658

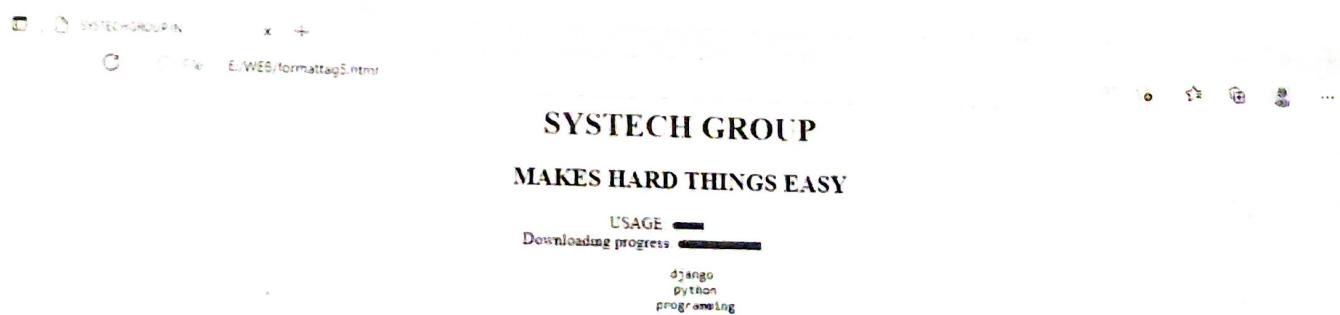
90804 32873

systechgroup.in

12. PROJECT: Creating a web page with formatting tags

```
<html style="background-color:#effac3;">
<title>SYSTECHGROUP.IN</title>
<head>
    <h1 style="color: red;text-align: center;">
        <b>SYSTECH GROUP</b>
    </h1>
    <h2 style="text-align: center;"><strong>MAKES HARD THINGS EASY</strong></h2>
</head>
<body style="text-align: center;">
    <label for="a">USAGE:</label>
<meter id="a" value="4" min="0" max="10">2 out of 10</meter><br>
<label for="file">Downloading progress:</label>
<progress id="file" value="52" max="100"></progress>
<pre>
    django
    python
    programming
</pre>
</body>
</html>
```

OUTPUT:



----- WEB DEVELOPMENT -----

IMAGES TAGS

	images
<figure>	Image, code snippets, diagrams
<figcaption>	caption
<picture>	Multiple resources for an image
<area>	Area inside the image
<map>	Map on an image
<canvas>	Draw
<svg>	SVG image

13. PROJECT: Creating a web page with image tags

```
<html>
  <title>SYSTECHGROUP.IN</title>
  <head style="text-align: center;">
    
  </head>
  <body style="text-align:center">
    <h1 style="color: black; text-align: center;">
      <b>SYSTECH GROUP</b>
    </h1>
    <h2><strong>WEB DEVELOPMENT COURSE</strong></h2>
  </body>
</html>
```

----- WEB DEVELOPMENT -----

OUTPUT:



14. PROJECT: Creating a web page with image tags

```
<html>
<title>SYSTECHGROUP.IN</title>
<head style="text-align: center;">
<figure>

<figcaption>systech image</figcaption>
</figure>
</head>
<body style="text-align:center">
<h1 style="color: red;text-align: center;">
<b>SYSTECH GROUP</b>
</h1>
<h2 ><strong >WEB DEVELOPMENT COURSE</strong></h2>
</body>
</html>
```

OUTPUT:



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Hardware & Networking Academy (P) Ltd

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Web Designing SEO & Digital Marketing Solutions

Mechatronics & AI Solutions

Software Technolo

TRICHY

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0431 - 241 0960 75022 02555

contact@systechgroup.in

systechgroup.in

COIMBATORE

Ajay Building, 9th Street, Cross Cut Road, Gandhipuram, Coimbatore - 12

0422 - 249 3658 90804 32873

systechgroup.in

15. PROJECT: Creating a web page with image tags

```

<html>
<title>SYSTECHGROUP.IN</title>
<head style="text-align: center;">
<picture>
  <source media="(min-width:500px)" srcset="e:\WEB\mysql.jpg">
  
</picture>
</head>
<body style="text-align:center">
  <h1 style="color: red;text-align: center;">
    <b>SYSTECH GROUP</b>
  </h1>
  <h2><strong>WEB DEVELOPMENT COURSE</strong></h2>
</body>
</html>

```

OUTPUT:



16. PROJECT: Creating a web page with image tags

```
<html>
<title>SYSTECHGROUP.IN</title>
<head style="text-align: center;">
    
    <map name="m"> <area shape="rect" coords="34,44,270,350" alt="tag1" href="formattag.html">
        <area shape="circle" coords="337,300,44" alt="tag3" href="formattag3.html">
    </map>
</head>
<body style="text-align:center">
    <h1 style="color: red;text-align: center;">
        <b>SYSTECH GROUP</b>
    </h1>
    <h2 ><strong >WEB DEVELOPMENT COURSE</strong></h2>
</body>
</html>
```

OUTPUT:



17. PROJECT: Creating a web page with image tags

```

<html>
  <title>SYSTECHGROUP.IN</title>
  <head style="text-align: center;">
    <h1 style="color: black; text-align: center;">
      <b>SYSTECH GROUP</b>
    </h1>
    <h2><strong>WEB DEVELOPMENT COURSE</strong></h2>
  </head>
  <body style="text-align: center;">
    <canvas id="c"></canvas>
    <script>
      var c = document.getElementById("c");
      var ctx = c.getContext("2d");
      ctx.fillStyle = "#3434eb";
      ctx.fillRect(30, 80, 50, 100);
    </script>
    <svg width="100" height="100">
      <circle cx="50" cy="50" r="40" stroke="red" stroke-width="4" fill="green" />
      Sorry, your browser does not support inline SVG.
    </svg>
  </body>
</html>

```

OUTPUT:

