ASSIGMENT

web technology

Q1) Create a simple HTML page using basic tags.
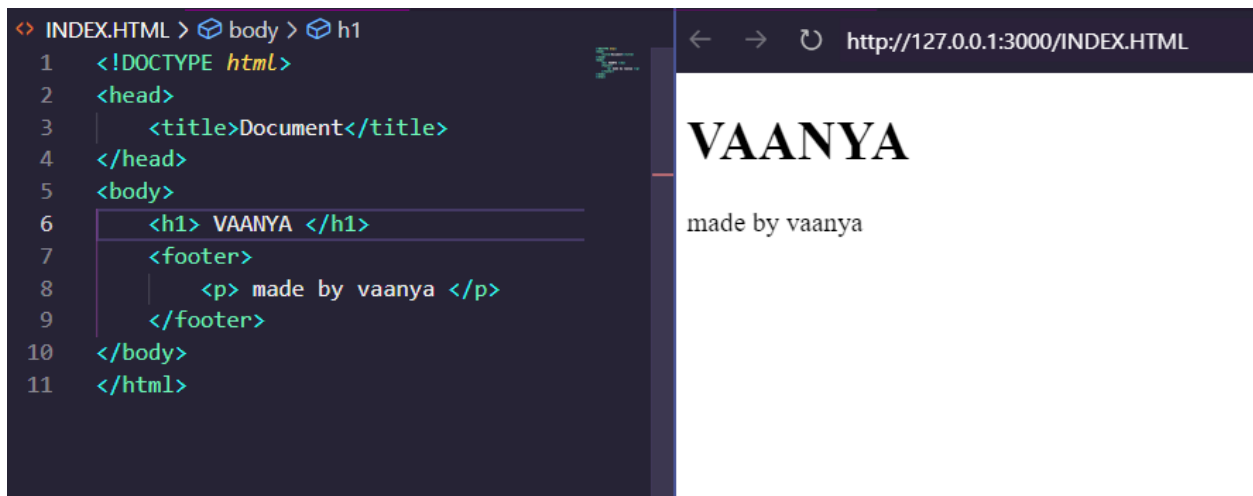
```html
<!DOCTYPE html>
<head>
    <title>Document</title>
</head>
<body>
    <h1>Welcome to My Webpage</h1>
    <footer>
        <p> made by vaanya </p>
    </footer>
</body>
</html>
```

Welcome to My Webpage

made by vaanya

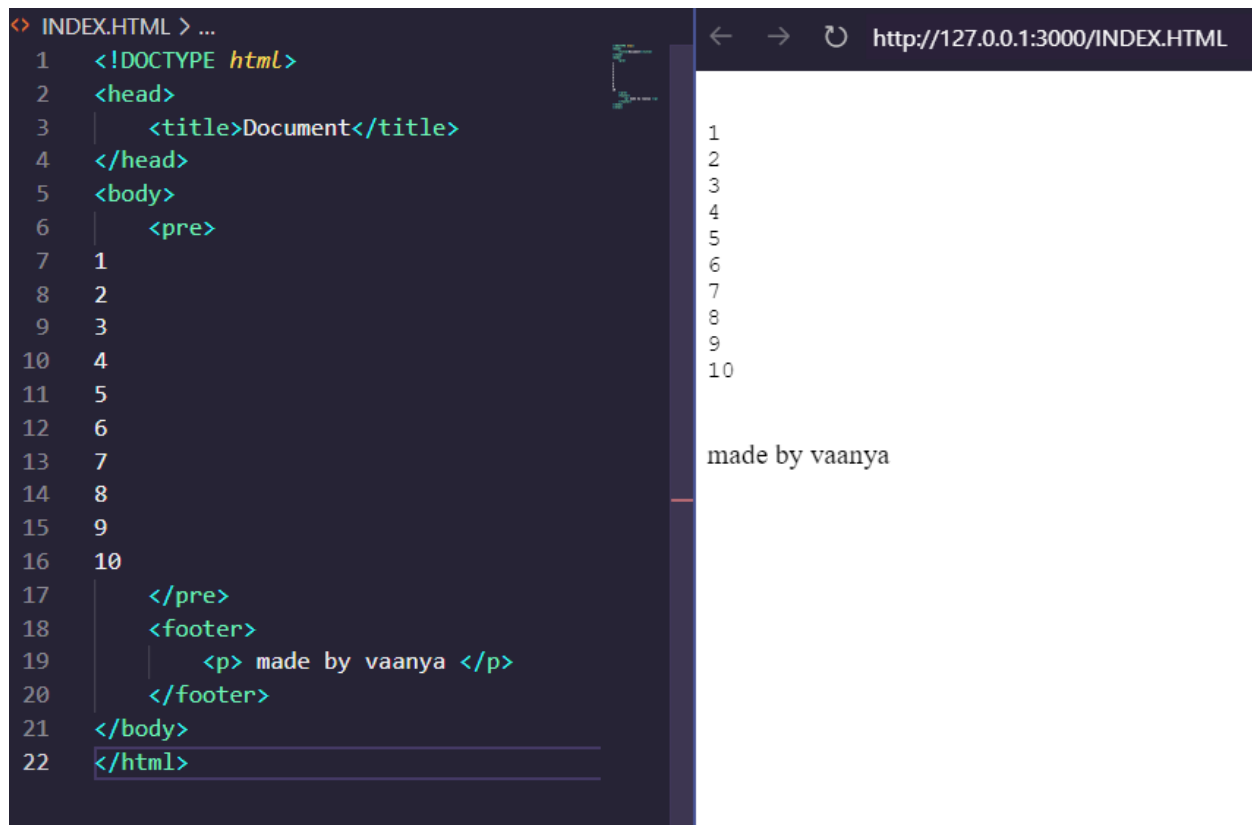## Q2) Create a web page that displays your name to the screen.

```html
<!DOCTYPE html>
<head>
    <title>Document</title>
</head>
<body>
    <h1> VAANYA </h1>
    <footer>
        <p> made by vaanya </p>
    </footer>
</body>
</html>
```

VAANYA

made by vaanya

Q3) Create a web page and show the output from 1 to 10 in separate lines.

```html
<!DOCTYPE html>
<head>
    <title>Document</title>
</head>
<body>
    <pre>
1
2
3
4
5
6
7
8
9
10
    </pre>
    <footer>
        <p> made by vaanya </p>
    </footer>
</body>
</html>
```

http://127.0.0.1:3000/INDEX.HTML

```
1
2
3
4
5
6
7
8
9
10
```

made by vaanya

Q4) Create a web page and show the output from 1 to 10 in separate lines, each number being in different color.

```
<> INDEX.HTML > ⊘ body > ⊘ div
 1   <!DOCTYPE html>
 2   <head>
 3       <title>Document</title>
 4   </head>
 5   <body>
 6       <div style="color: ■red;">1</div>
 7       <div style="color: ■orange;">2</div>
 8       <div style="color: ■yellow;">3</div>
 9       <div style="color: ■green;">4</div>
10       <div style="color: ■blue;">5</div>
11       <div style="color: ■indigo;">6</div>
12       <div style="color: ■violet;">7</div>
13       <div style="color: ■pink;">8</div>
14       <div style="color: ■brown;">9</div>
15       <div style="color: ■grey;">10</div>
16       <footer>
17           <p> made by vaanya </p>
18       </footer>
19   </body>
20   </html>
```
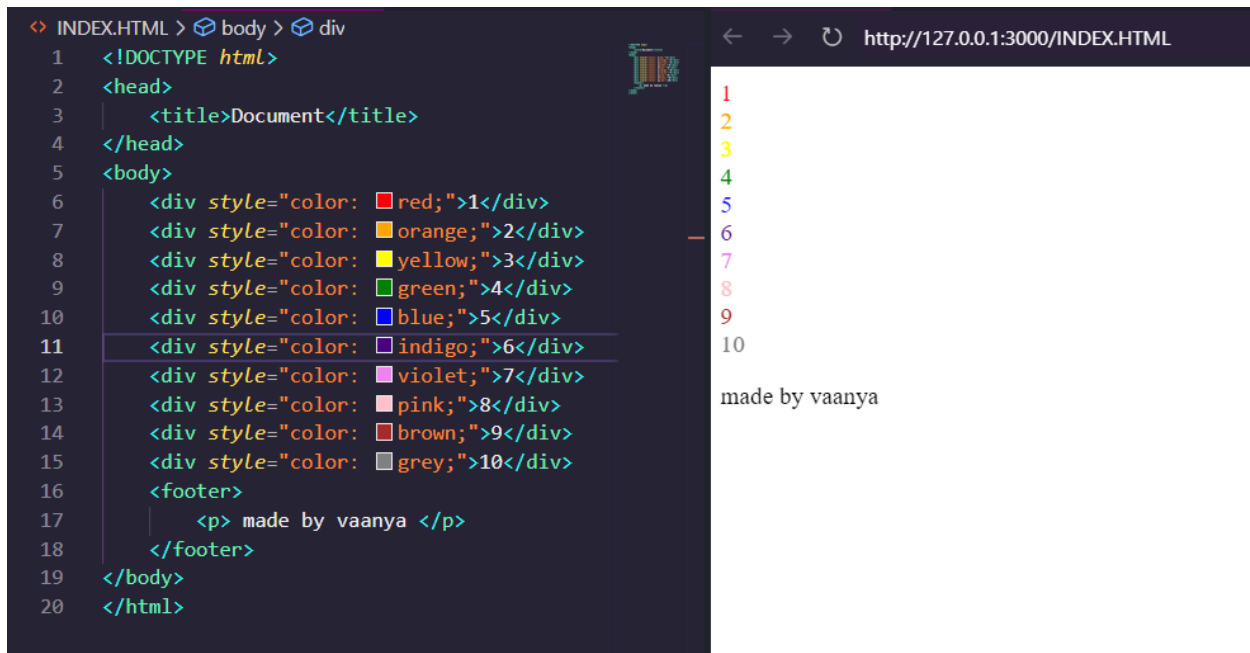
Q5) How do I make a picture as a background on my web pages?


```
<> INDEX.HTML > ⊘ head > ⊘ style > ⊁ body
 1   <!DOCTYPE html>
 2   <head>
 3       <title>Document</title>
 4       <style>
 5           body {
 6               background-image: url(batman-s
 7               background-size: cover;
 8               color: ■#fff;
 9           }
10       </style>
11   </head>
12   <body>
13       <pre>
14   1
15   2
16   3
17   4
18   5
19   6
20   7
21   8
22   9
23   10
24       </pre>
25       <footer>
26           <p> made by vaanya </p>
27       </footer>
28   </body>
29   </html>
```
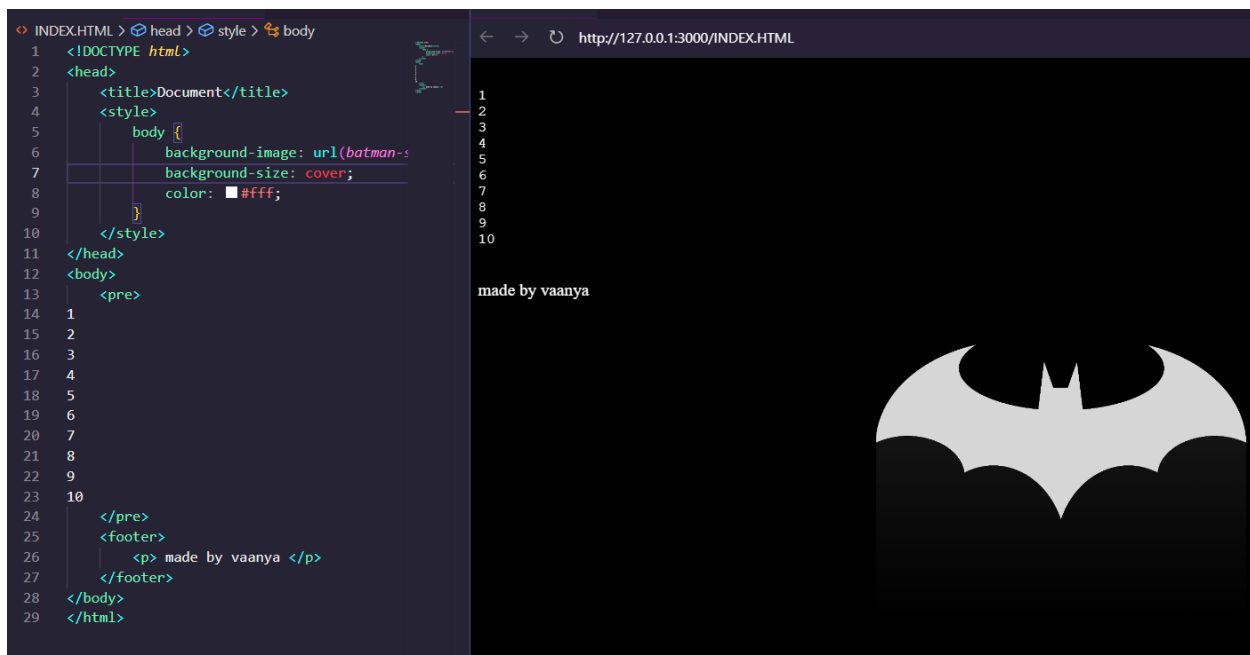
Q6) Create a web page to print a paragraph with 4-5 sentences, each sentence shall have a different font.

```
<> INDEX.HTML > ⊘ body
1   <!DOCTYPE html>
2   <head>
3       <title>Document</title>
4   </head>
5   <body>
6       <p>
7           <span style="font-family: 'Courier New'">This is the first sentence</span>
8           <span style="font-family: 'Georgia'">This is the second sentence</span>
9           <span style="font-family: 'Times New Roman'">This is the third sentence .</span>
10          <span style="font-family: 'Verdana' ">This is the fourth sentence </span>
11          <span style="font-family: 'Tahoma'">This is the fifth sentence </span>
12      </p>
13      <footer>
14          <p> made by vaanya </p>
15      </footer>
16  </body>
17  </html>
```

← → ↻ http://127.0.0.1:3000/INDEX.HTML

This is the first sentence This is the second sentence This is the third sentence . This is the fourth sentence This is the fifth sentence

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Q7) Write HTML code to print a paragraph that is description of a book, it shall include the title of the book, its author name; name and title should be underlined and all adjectives shall be bold and Italics.

```
1   <!DOCTYPE html>
2   <head>
3       <title>Document</title>
4   </head>
5   <body>
6       <p>
7           <span style="text-decoration: underline;">THE RED LIFE</span> by
8           <span style="text-decoration: underline;">Jaack Frnak</span> is a
9           <span style="font-weight: bold; font-style: italic;">crazy</span> and
10          <span style="font-weight: bold; font-style: italic;">Lovely </span> novel that explores the
11          <span style="font-weight: bold; font-style: italic;">deep</span> themes and
12          <span style="font-weight: bold; font-style: italic;">emotional</span> experiences.
13      </p>
14      <footer>
15          <p> made by vaanya </p>
16      </footer>
17  </body>
18  </html>
```

← → ↻ http://127.0.0.1:3000/INDEX.HTML

THE RED LIFE by Jaack Frnak is a *crazy* and *Lovely* novel that explores the *deep* themes and *emotional* experiences.

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Q8) Write HTML code to print your name using Heading tag, every letter shall be of different heading size.

```
<> INDEX.HTML > ⬡ body > ⬡ h6
 1    <!DOCTYPE html>
 2    <head>
 3        <title>Document</title>
 4    </head>
 5    <body>
 6        <h1>v</h1>
 7        <h2>a</h2>
 8        <h3>a</h3>
 9        <h4>n</h4>
10        <h5>y</h5>
11        <h6>a</h6>
12        <footer>
13            <p> made by vaanya </p>
14        </footer>
15    </body>
16    </html>
```

← → ↻ http://127.0.0.1:3000/INDEX.HTML

V

a

a

n

y

a

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Q9) Write HTML code to print the sequence of numbers 1-20. Each number shall be in different line with number 2 next to it as subscript, an equal sign and the result.

```html
<!DOCTYPE html>
<head>
    <title>Document</title>
</head>
<body>
    <div class="number-line">1<sub>2</sub> = 1</div>
        <div class="number-line">2<sub>2</sub> = 4</div>
        <div class="number-line">3<sub>2</sub> = 9</div>
        <div class="number-line">4<sub>2</sub> = 16</div>
        <div class="number-line">5<sub>2</sub> = 25</div>
        <div class="number-line">6<sub>2</sub> = 36</div>
        <div class="number-line">7<sub>2</sub> = 49</div>
        <div class="number-line">8<sub>2</sub> = 64</div>
        <div class="number-line">9<sub>2</sub> = 81</div>
        <div class="number-line">10<sub>2</sub> = 100</div>
        <div class="number-line">11<sub>2</sub> = 121</div>
        <div class="number-line">12<sub>2</sub> = 144</div>
        <div class="number-line">13<sub>2</sub> = 169</div>
        <div class="number-line">14<sub>2</sub> = 196</div>
        <div class="number-line">15<sub>2</sub> = 225</div>
        <div class="number-line">16<sub>2</sub> = 256</div>
        <div class="number-line">17<sub>2</sub> = 289</div>
        <div class="number-line">18<sub>2</sub> = 324</div>
        <div class="number-line">19<sub>2</sub> = 361</div>
        <div class="number-line">20<sub>2</sub> = 400</div>
    <footer>
        <p> made by vaanya </p>
    </footer>
</body>
</html>
```

Browser output:

$1_2 = 1$
$2_2 = 4$
$3_2 = 9$
$4_2 = 16$
$5_2 = 25$
$6_2 = 36$
$7_2 = 49$
$8_2 = 64$
$9_2 = 81$
$10_2 = 100$
$11_2 = 121$
$12_2 = 144$
$13_2 = 169$
$14_2 = 196$
$15_2 = 225$
$16_2 = 256$
$17_2 = 289$
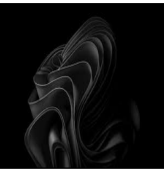$18_2 = 324$
$19_2 = 361$
$20_2 = 400$

made by vaanya

Q10) Write HTML code to display an image with border of size with width 200, height 200 pixels, leaving Hspace and Vspace of your choice with image hanging in the right side on the screen.
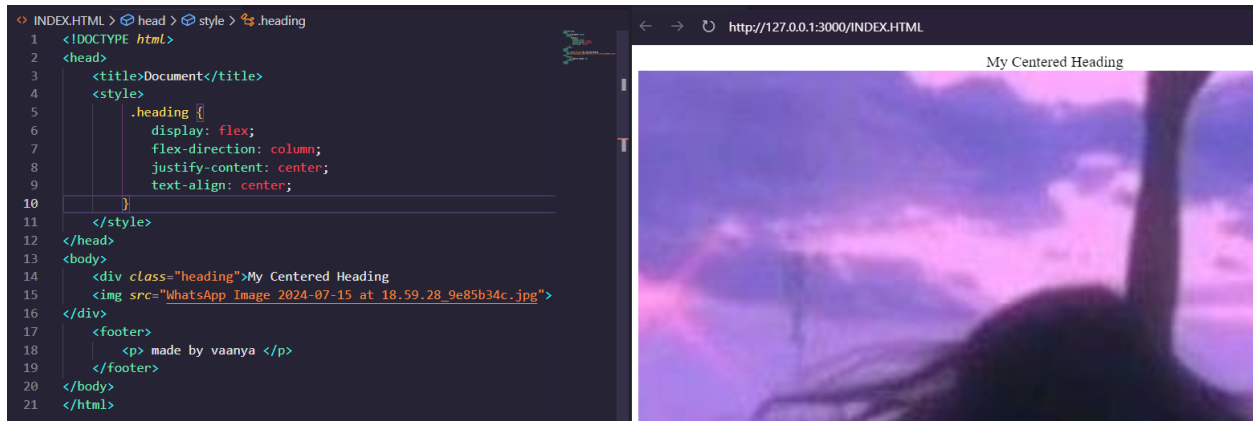
```html
<!DOCTYPE html>
<head>
    <title>Document</title>
</head>
<body>
    <div style=" text-align: right;">
        <img src="download.jpg" style="
        border: 2px solid ☐black;
        width: 200px;
        height: 200px;">
    </div>
    <footer>
        <p> made by vaanya </p>
    </footer>
</body>
</html>
```
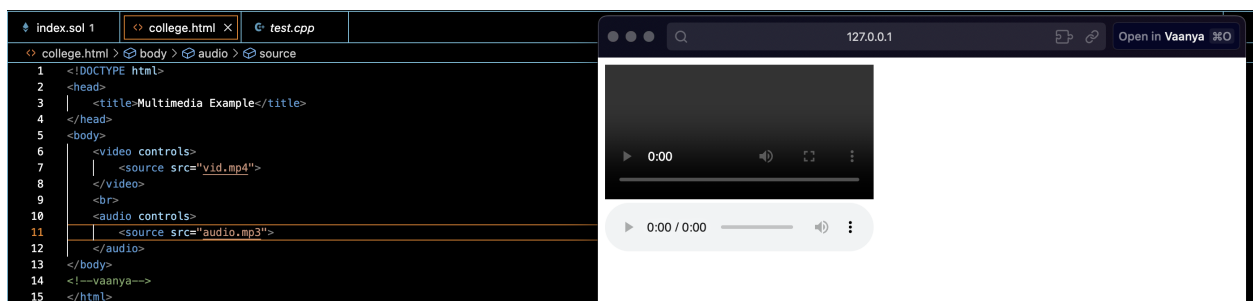
http://127.0.0.1:3000/INDEX.HTML

made by vaanya

Q11) Write HTML code to create a web page with heading. The heading shall be displayed at the top-center of the page and the image shall be at the centre, just below the heading.

```
<> INDEX.HTML > </> head > </> style > .heading
1   <!DOCTYPE html>
2   <head>
3       <title>Document</title>
4       <style>
5           .heading {
6               display: flex;
7               flex-direction: column;
8               justify-content: center;
9               text-align: center;
10          }
11      </style>
12  </head>
13  <body>
14      <div class="heading">My Centered Heading</div>
15      <img src="WhatsApp Image 2024-07-15 at 18.59.28_9e85b34c.jpg">
16  </div>
17      <footer>
18          <p> made by vaanya </p>
19      </footer>
20  </body>
21  </html>
```

Q12) Write HTML code using Multimedia tags.


```
<> college.html > </> body > </> audio > </> source
1   <!DOCTYPE html>
2   <head>
3       <title>Multimedia Example</title>
4   </head>
5   <body>
6       <video controls>
7           <source src="vid.mp4">
8       </video>
9       <br>
10      <audio controls>
11          <source src="audio.mp3">
12      </audio>
13  </body>
14  <!--vaanya-->
15  </html>
```

Q13) Create a table using `rowspan` and `colspan` taking an example of student records.

```
1    <!DOCTYPE html>
2    <head>
3        <title>Table</title>
4    </head>
5    <body>
6        <h1>Student Record</h1>
7        <table border="1">
8            <tr>
9                <th rowspan="2">Name</th>
10               <th colspan="2">Marks</th>
11           </tr>
12           <tr>
13               <th>Math</th>
14               <th>Science</th>
15           </tr>
16           <tr>
17               <td>Vaanya</td>
18               <td>90</td>
19               <td>90</td>
20           </tr>
21           <tr>
22               <td>vaanya</td>
23               <td>95</td>
24               <td>95</td>
25           </tr>
26       </table>
27   </body>
28   <!--vaanya-->
29   </html>
30
```

index.sol 1   **college.html** ✕   **test.cpp**

college.html > body > table > tr > td

127.0.0.1

Student Record

Name	Marks	
	Math	Science
Vaanya	90	90
vaanya	95	95

Q14) Write HTML code using the `<table>` tag with `cellpadding` and `cellspacing` as its attributes.

```html
<!DOCTYPE html>
<head>
    <title>Table</title>
</head>
<body>
    <table border="1"
        cellpadding="10"
        cellspacing="5">
        <tr>
            <th>Subject</th>
            <th>Marks</th>
        </tr>
        <tr>
            <td>Math</td>
            <td>90</td>
        </tr>
        <tr>
            <td>Science</td>
            <td>85</td>
        </tr>
    </table>
</body>
<!--vaanya-->
</html>
```

Subject	Marks
Math	90
Science	85

Q15) Create unordered, ordered, and definition lists taking an example of your subjects in MCA I, II, and III Semesters.


```html
<!DOCTYPE html>
<head>
    <title>Lists</title>
</head>
<body>
    <h1>Subjects in MCA</h1>
    <h2>Unordered List</h2>
    <ul>
        <li>Math</li>
        <li>Coding</li>
        <li>Computer Basics</li>
    </ul>
    <h2>Ordered List</h2>
    <ol>
        <li>Math</li>
        <li>Coding</li>
        <li>Computer Basics</li>
    </ol>
<!--vaanya-->
</body>
</html>
```
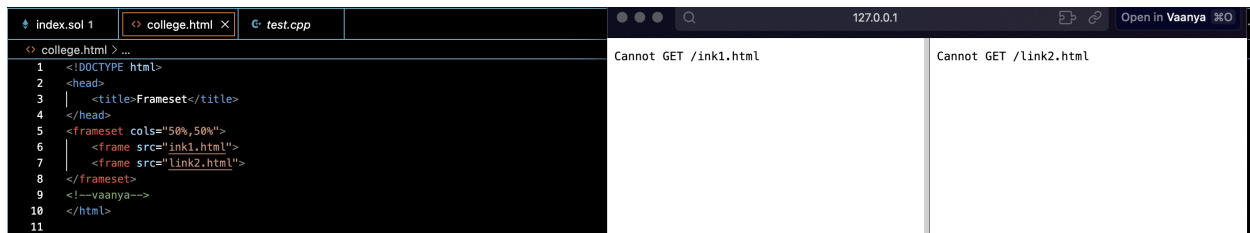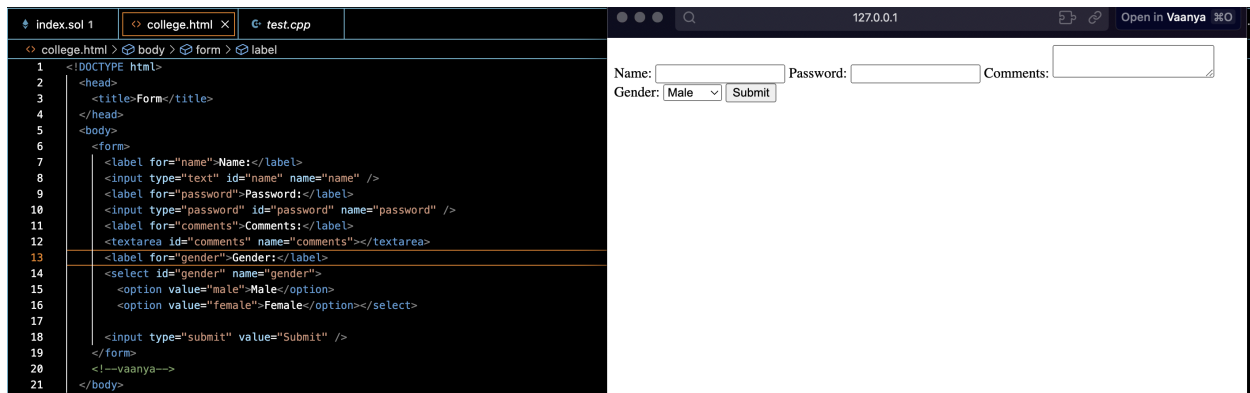
Subjects in MCA

Unordered List

- Math
- Coding
- Computer Basics
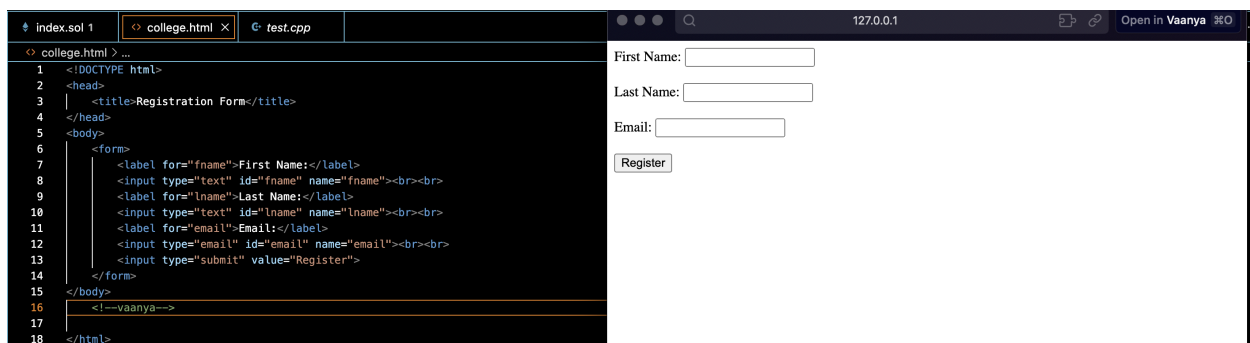
Ordered List

1. Math
2. Coding
3. Computer Basics

Q16) Write HTML code using `<frameset>` and `<frame>` tags with all their attributes.

```html
<!DOCTYPE html>
<head>
    <title>Frameset</title>
</head>
<frameset cols="50%,50%">
    <frame src="ink1.html">
    <frame src="link2.html">
</frameset>
<!--vaanya-->
</html>
```

Cannot GET /ink1.html

Cannot GET /link2.html

Q17) Write HTML code to design a form in HTML using controls and buttons such as a textbox, textarea, password, submit button, browse button, and dropdown menu.

```html
<!DOCTYPE html>
<head>
  <title>Form</title>
</head>
<body>
  <form>
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" />
    <label for="password">Password:</label>
    <input type="password" id="password" name="password" />
    <label for="comments">Comments:</label>
    <textarea id="comments" name="comments"></textarea>
    <label for="gender">Gender:</label>
    <select id="gender" name="gender">
      <option value="male">Male</option>
      <option value="female">Female</option></select>

    <input type="submit" value="Submit" />
  </form>
  <!--vaanya-->
</body>
```

Name: Password: Comments:
Gender: Male   Submit

Q18) Write HTML code to design a registration form in HTML.

```html
<!DOCTYPE html>
<head>
    <title>Registration Form</title>
</head>
<body>
    <form>
        <label for="fname">First Name:</label>
        <input type="text" id="fname" name="fname"><br><br>
        <label for="lname">Last Name:</label>
        <input type="text" id="lname" name="lname"><br><br>
        <label for="email">Email:</label>
        <input type="email" id="email" name="email"><br><br>
        <input type="submit" value="Register">
    </form>
</body>
<!--vaanya-->

</html>
```

First Name:

Last Name:

Email:

Register

Q19) Write HTML code to design a student admission form in HTML.


```html
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Student Admission Form</title>
</head>
<body>
    <h1>Admission Form</h1>
    <form>
        <label for="name">Student Name:</label>
        <input type="text" id="name" name="name"><br><br>
        <label for="dob">Date of Birth:</label>
        <input type="date" id="dob" name="dob"><br><br>
        <label for="course">Course:</label>
        <input type="text" id="course" name="course"><br><br>
        <input type="submit" value="Submit">
    </form>
</body>
<!--vaanya-->
</html>
```
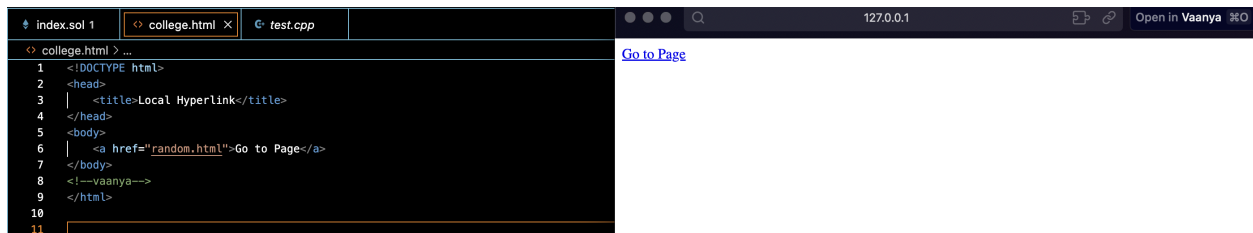
Admission Form

Student Name: rfrg

Date of Birth: 31/02/3333

Course: greggr

Submit

Q20) Create a proper homepage of your own using any components and styles.


```html
<!DOCTYPE html>
<head>
    <title>Home Page</title>
</head>
<body>
    <h1>Welcome to My Home Page</h1>
    <p>This is my homepage </p>
</body>
<!--vaanya-->
</html>
```

Welcome to My Home Page

This is my homepage

Q21) Write HTML code for including local hyperlinking in a web page.

```
index.sol 1        college.html  ×      test.cpp                                    127.0.0.1                    Open in Vaanya ⌘O
college.html > ...                                                    Go to Page
  1   <!DOCTYPE html>
  2   <head>
  3       <title>Local Hyperlink</title>
  4   </head>
  5   <body>
  6       <a href="random.html">Go to Page</a>
  7   </body>
  8   <!--vaanya-->
  9   </html>
 10
 11
```
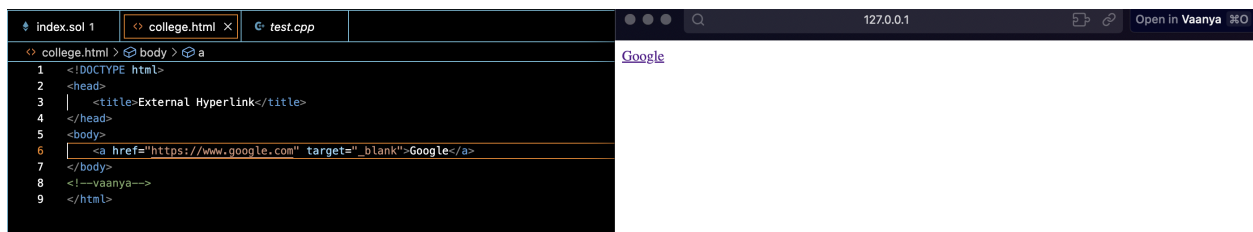
Q22) Write HTML code for including inter-hyperlinking in a web page.

```
index.sol 1        college.html  ●      test.cpp                                    127.0.0.1                    Open in Vaanya ⌘O
college.html > ...                                                    Go to Another Page
  1   <!DOCTYPE html>
  2   <head>
  3       <title>Inter Hyperlink</title>
  4   </head>
  5   <body>
  6       <a href="./random.html">Go to Another Page</a>
  7   </body>
  8   <!--vaanya-->
  9   </html>
 10
 11
```
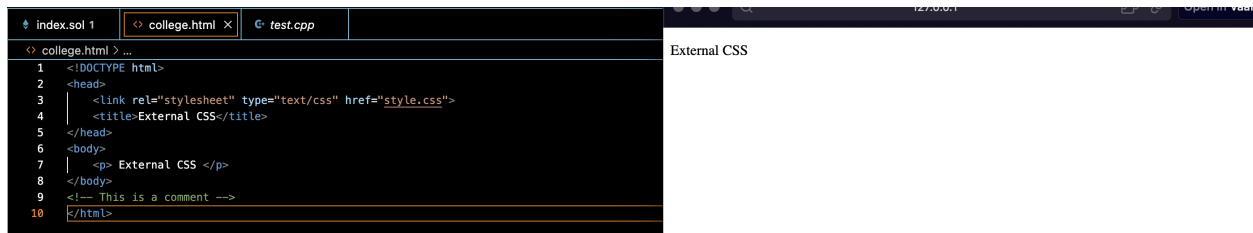
Q23) Write HTML code for including external hyperlinking in a web page.

```
index.sol 1        college.html  ×      test.cpp                                    127.0.0.1                    Open in Vaanya ⌘O
college.html > body > a                                              Google
  1   <!DOCTYPE html>
  2   <head>
  3       <title>External Hyperlink</title>
  4   </head>
  5   <body>
  6       <a href="https://www.google.com" target="_blank">Google</a>
  7   </body>
  8   <!--vaanya-->
  9   </html>
```
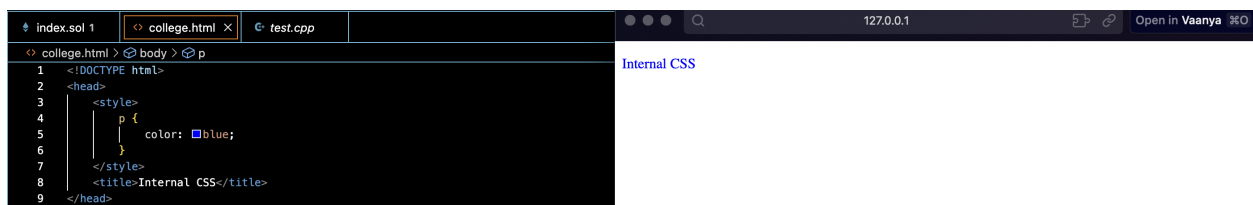
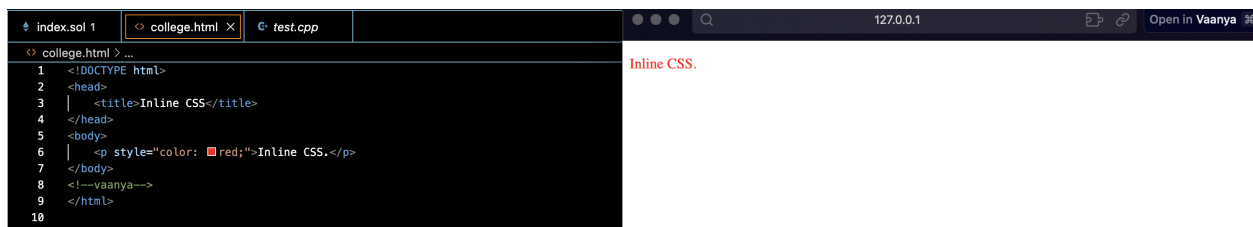## Q24) Write code to show external CSS with HTML code.

```
index.sol 1      college.html  ×      test.cpp
college.html > ...
   1    <!DOCTYPE html>
   2    <head>
   3        <link rel="stylesheet" type="text/css" href="style.css">
   4        <title>External CSS</title>
   5    </head>
   6    <body>
   7        <p> External CSS </p>
   8    </body>
   9    <!-- This is a comment -->
  10    </html>
```
External CSS

Q25) Write code to show internal CSS with HTML code.

```
index.sol 1      college.html  ×      test.cpp                    127.0.0.1                          Open in Vaanya  ⌘O
college.html > body > p
   1    <!DOCTYPE html>                                            Internal CSS
   2    <head>
   3        <style>
   4            p {
   5                color: blue;
   6            }
   7        </style>
   8        <title>Internal CSS</title>
   9    </head>
```

Q26) Write code to show inline CSS with HTML code.

```
index.sol 1      college.html  ×      test.cpp                    127.0.0.1                          Open in Vaanya  ⌘
college.html > ...
   1    <!DOCTYPE html>                                            Inline CSS.
   2    <head>
   3        <title>Inline CSS</title>
   4    </head>
   5    <body>
   6        <p style="color: red;">Inline CSS.</p>
   7    </body>
   8    <!--vaanya-->
   9    </html>
  10
  11
```