

Practical 1

Aim: Introduction to HTML, Web Pages, World Wide Web, Tags in HTML

HTML is the standard markup language for creating Web Pages. It stands for Hyper Text Markup Language. It describes the structure of a Web Page. It is a subset of XML. It tells the browser how to display the content. It labels pieces of content such as "heading", "paragraph", "link" etc.

An HTML Element is defined by a start tag, content and end tag

```
<element attribute="value">Content</element>
```

A webpage is a document written in HTML that is viewed in an Internet Browser. It can be accessed by entering a URL in the browser. It may contain text, graphics and hyperlinks. It is often used to provide information to viewers, including pictograms and videos to help illustrate important topics. A collection of webpages make up a website.

Its Basic Structure is :

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <!-- Metadata -->
  </head>
  <body>
    <!-- Page Content -->
  </body>
</html>
```

World Wide Web is an information system on the internet which allows documents to be connected to other documents by hypertext links, enabling the user to search for information by moving from one document to another. Document and downloadable media are made available to the network through web servers and can be accessed using web browsers.

It was invented by Tim Berners-Lee in March 1989 while working for CERN in Switzerland.

Tags in HTML:

```
<!-- This is a comment -->
<h1>Heading level 1</h1>
<h2>Heading level 2</h2>
<h3>Heading level 3</h3>
<h4>Heading level 4</h4>
<h5>Heading level 5</h5>
<h6>Heading level 6</h6>
<p>Paragraph 1</p>
<p>Paragraph 2</p>
```

```
<p>
  This <br />
  is a paragraph <br />
  with <br />
  line breaks
</p>
<a href="https://www.example.com/">A link to example site.</a>
<input type="text" /> <!-- This is for text input -->
<input type="file" /> <!-- This is for uploading files -->
<input type="checkbox" /> <!-- This is for checkboxes -->
```

Practical 02

Aim: Write a HTML code to generate the following output

- Title should be about college.
- Put image in background
- Place college name at top of page followed by address in smaller size
- Add names of courses offered each in a different color, style, and typeface.
- Add scrolling text with a message of your choice.

Theory:

[HTML](#) (the Hypertext Markup Language) and [CSS](#) (Cascading Style Sheets) are two of the core technologies for building Web pages. HTML provides the *structure* of the page, CSS the (visual and aural) *layout*, for a variety of devices. Along with [graphics](#) and [scripting](#), HTML and CSS are the basis of building Web pages and Web Applications.

Code:

```
index.html

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>GCOEN</title>
    <link rel="stylesheet" href="style.css" />
  </head>
  <body class="body">
    <div class="bg-image container">
      <div class="content-container">
        <h1 class="title-header">Government College of Engineering, Nagpur</h1>
        <h2 class="subtitle">Sector-27, Mihan Rehabilitation Colony, Khapri, Nagpur - 441108</h2>

        <marquee class="marquee" behavior="scroll" direction="right">This is an annoucement reel for
this college's website.</marquee>

        <div class="list-container">
          <ul class="list">
            <li class="list-header">Courses Offered:</li>
            <li class="list-item">Computer Science and Engineering</li>
            <li class="list-item">Electronics and Telecommunication Engineering</li>
            <li class="list-item">Electrical Engineering</li>
            <li class="list-item">Mechanical Engineering</li>
            <li class="list-item">Civil Engineering</li>
          </ul>
        </div>
      </div>
    </div>
  </body>
</html>
```

```
.body {
  height: 100%;
  width: 100%;
  margin: 0px;
}

.bg-image {
  background-image: url("../main-bg.jpg");
  background-size: cover;
  /* background-position: center; */
  background-repeat: no-repeat;
}

.container {
  height: 100vh;
  width: 100%;
  display: flex;
  flex-direction: column;
  justify-content: center;
  align-items: center;
}

.content-container {
  margin-left: 0vw;
  background-color: #ffffff;
  padding: 1rem 1rem;
  /* color: white; */
  display: flex;
  flex-direction: column;
  border-radius: 1rem;
}

.title-header {
  font-size: 2.25rem;
  font-weight: 700;
  margin-top: 0px;
  margin-bottom: 1rem;
  margin-left: auto;
  margin-right: auto;
  padding: 0.75rem;
  border-radius: 0.25rem;
  background-color: #22215b;
  color: #ffffff;
}
```

```
.subtitle {
  font-size: 1rem;
  font-weight: 500;
  margin-top: 0px;
  margin-bottom: 1rem;
  margin-left: auto;
  margin-right: auto;
  color: #22215b;
}

.marquee {
  font-size: 1rem;
  font-weight: 500;
  margin-top: 0px;
  margin-bottom: 1rem;
  margin-left: auto;
  margin-right: auto;
  padding: 0.75rem;
  border-radius: 0.25rem;
  background-color: #eef7fe;
  color: #22215b;
}

.list {
  list-style: none;
  padding: 0px;
  margin: 0px 0px;
  display: flex;
  flex-direction: column;
  /* justify-content: center; */
  align-items: flex-start;
}

.list-header {
  font-size: 1.5rem;
  font-weight: 700;
  /* margin-bottom: 1rem; */
  margin: 0px auto 1rem 2rem;
  color: #22215b;
}

.list-item {
  font-size: 1.25rem;
  font-weight: 500;
  /* margin-bottom: 1rem; */
  margin: 0px auto 0.5rem 3rem;
  /* flex-shrink: 0; */
  align-items: stretch;
  padding: 0.25rem 0.25rem;
  background-color: #ffffff;
  border-radius: 0.25rem;
  color: #22215bb2;
}
```

Output:

