Lab 1

TO CREATE A CV using HTML and CSS.

Objective:

   a) To understand the use of different HTML tags.
   b) To learn and understand the use of CSS properties.

Theory:
HTML:
HTML (Hypertext Markup Language) is the backbone of the web, providing a standardized structure for creating and formatting content on the internet through a system of tags and attributes, facilitating seamless communication and interaction between browsers and users worldwide.
HTML properties used in this project:
1. Main Element: `<main>` serves as the primary content section of a web page, providing the central focus for users and search engines to understand the purpose and theme of the document.

2. Article Element: Enclosed within `<article>`, individual pieces of content gain semantic significance, aiding accessibility and SEO by delineating stand-alone sections such as blog posts, forum threads, or news articles.

3. Section Element: `<section>` organizes related content thematically, enhancing the structural clarity of web pages, thus facilitating navigation and comprehension for both users and assistive technologies.

4. Anchor Tag: `<a>` facilitates seamless navigation within and between web pages, acting as hyperlinks that connect content across the internet, enhancing user experience and interconnectivity.

5. Heading Tags: From `<h1>` to `<h6>`, heading tags hierarchically structure content, aiding readability and SEO by signaling the importance of text elements, thereby guiding both users and search engines through the page's information hierarchy.

6. P Tag: Wrapped within `<p>`, textual content gains semantic meaning as paragraphs, aiding in readability, accessibility, and styling, while maintaining separation between distinct units of information.

7. Attributes (ID and Classes):
   - ID Attribute: Uniquely identifies individual elements within a webpage, facilitating targeted styling and scripting, while also serving as anchor points for intra-page navigation.
- Class Attribute: Groups elements sharing similar characteristics, streamlining CSS styling and JavaScript functionality, promoting maintainability and scalability of web projects.

CSS:
CSS (Cascading Style Sheets) empowers web developers to enhance the presentation and layout of HTML elements, offering precise control over visual aspects such as colors, fonts, spacing, and responsiveness, thereby elevating the aesthetic appeal and usability of websites across various devices and screen sizes.

Some of the CSS properties used in this project:
- Float: Used to position elements horizontally within their container, facilitating layouts like floating images or text around them.
- Color: Sets the color of text content or backgrounds, enhancing readability and aesthetics.
- Background Color: Defines the background color of elements, adding visual emphasis or differentiation to sections of a webpage.
- Margin: Controls the spacing around elements, allowing for precise control over layout and alignment.
- Padding: Adjusts the space between the content of an element and its border, enhancing visual appeal and readability.
- Line Height: Sets the vertical spacing between lines of text, improving legibility and overall design consistency.
- Text Transform: Alters the capitalization of text, offering options like uppercase or lowercase for stylistic purposes or to enhance accessibility.
- Width: Specifies the width of an element, enabling responsive design and precise layout control.
- Height: Determines the height of an element, crucial for creating consistent and visually appealing interfaces, particularly in grid-based layouts.

Methodology:

HTML code:

```
<!DOCTYPE html>
<html>
<head>
       <title>Nischhal Bohara | Web Developer | nischalbh51@gmail.com</title>
       <meta http-equiv="content-type" content="text/html; charset=utf-8" />
       <link rel="stylesheet" type="text/css"
              href="http://yui.yahooapis.com/2.7.0/build/reset-fonts-grids/reset-fonts-grids.css"
media="all" />
       <link rel="stylesheet" type="text/css" href="style.css" />

</head>

<body>

       <main id="doc2" class="yui-t7">
              <article class="container">

                     <section id="hd">
                            <div class="yui-gc">
                                   <div class="yui-u first">
                                          <h1>Nischhal Bohara</h1>
                                          <h2>Web Developer</h2>
                                   </div>
```

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```html
                                <div class="yui-u">
                                    <div class="contact-info">
                                        <h3><a id="pdf" href="#">Download PDF</a></h3>
                                        <h3><a href="mailto:nischalbh51@gmail.com">nischalbh51@gmail.com</a></h3>
                                        <h3>9844736540</h3>
                                    </div>
                                </div>
                            </div>
                        </section>
                        <section id="bd">
                            <div id="yui-main">
                                <div class="yui-b">

                                    <div class="yui-gf">
                                        <div class="yui-u first">
                                            <h2>Profile</h2>
                                        </div>
                                        <div class="yui-u">
                                            <p class="enlarge">
                                                Passionate about technology and perpetually curious, I'm always on the lookout for the latest innovations and eager to delve into new realms of knowledge. With a relentless drive to learn and explore, I thrive on the cutting edge of tech advancements.
                                            </p>
                                        </div>
                                    </div>
                                    <div class="yui-gf">
                                        <div class="yui-u first">
                                            <h2>Skills</h2>
                                        </div>
                                        <div class="yui-u">
                                            <div class="talent">
                                                <h2>Web Development</h2>
                                                <p>Proficient in web development, with a strong grasp of front-end intricacies and a solid foundation in backend technologies.</p>
                                            </div>
```

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```html
                                                <div class="talent">
                                                        <h2>UI Design</h2>
                                                        <p>Skilled in UI design, I effortlessly navigate Figma tools to bring creative visions to life, blending functionality with aesthetic appeal seamlessly.</p>
                                                </div>
                                        </div>
                                </div>
                                <div class="yui-gf">
                                        <div class="yui-u first">
                                                <h2>Technical</h2>
                                        </div>
                                        <div class="yui-u">
                                                <ul class="talent">
                                                        <li>HTML5</li>
                                                        <li>CSS3 / Tailwind CSS</li>
                                                        <li class="last">Javascript</li>
                                                </ul>

                                                <ul class="talent">
                                                        <li>React</li>
                                                        <li>PHP</li>
                                                        <li class="last">Node JS</li>
                                                </ul>

                                                <ul class="talent">
                                                        <li>Git version control</li>
                                                        <li>MongoDB / MySQL</li>
                                                        <li class="last">Linux / Ubuntu</li>
                                                </ul>
                                        </div>
                                </div>
                                <div class="yui-gf">
                                        <div class="yui-u first">
                                                <h2>Experience</h2>
                                        </div>
                                        <div class="yui-u">

                                                <div class="job">
                                                        <h2>BlackTech.</h2>
```

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```html
                                                <h3>Front end intern</h3>
                                                <h4>2024-now</h4>
                                        </div>
                                </div>
                        </div>
                        <div class="yui-gf last">
                                <div class="yui-u first">
                                        <h2>Education</h2>
                                </div>
                                <div class="yui-u">
                                        <div class="job">
                                                <h2>Prativa Secondary School-Pokhara, Kaski</h2>
                                                <h3>+2 Science&mdash; <strong>3.15 GPA</strong> </h3>
                                                <h4>2019-2022</h4>
                                        </div>
                                        <div class="job">
                                                <h2>RudrePipal Secondary School, Baglung</h2>
                                                <h3>Secondary level&mdash; <strong>3.6 GPA</strong> </h3>
                                                <h4>2017-2019</h4>
                                        </div>
                                </div>
                        </div>
                </div>
        </section>
</article>
</main>
</body>
</html>
```

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CSS code:

```css
.msg {
padding: 10px;
background: #222;
position: relative;
}
.msg h1 {
color: #fff;
}
.msg a {
margin-left: 20px;
background: #408814;
color: white;
padding: 4px 8px;
text-decoration: none;
}
.msg a:hover {
background: #266400;
}

body {
font-family: Georgia;
color: #444;
}
.container {
padding: 10px 80px;
margin: 80px auto;
background: #f5f5f5;
border: solid #666;
border-width: 8px 0 2px 0;
}
.yui-gf {
margin-bottom: 2em;
padding-bottom: 2em;
border-bottom: 1px solid #ccc;
}

#hd {
margin: 2.5em 0 3em 0;
padding-bottom: 1.5em;
border-bottom: 1px solid #ccc;
}
#hd h2 {
text-transform: uppercase;
letter-spacing: 2px;
}
```

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```css
#bd,
#ft {
margin-bottom: 2em;
}

#hd h1 {
font-size: 48px;
text-transform: uppercase;
letter-spacing: 3px;
}
h2 {
font-size: 152%;
}
h3,
h4 {
font-size: 122%;
}
h1,
h2,
h3,
h4 {
color: #333;
}
p {
font-size: 100%;
line-height: 18px;
padding-right: 3em;
}
a {
color: #990003;
}
a:hover {
text-decoration: none;
}
strong {
font-weight: bold;
}
li {
line-height: 24px;
border-bottom: 1px solid #ccc;
}
p.enlarge {
font-size: 144%;
padding-right: 6.5em;
line-height: 24px;
}
p.enlarge span {
color: #000;
}
```

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```css
.contact-info {
margin-top: 7px;
}
.first h2 {
font-style: italic;
}
.last {
border-bottom: 0;
}

a#pdf {
display: block;
float: left;
background: #666;
color: white;
padding: 6px 50px 6px 12px;
margin-bottom: 6px;
text-decoration: none;
}
a#pdf:hover {
background: #222;
}

.job {
position: relative;
margin-bottom: 1em;
padding-bottom: 1em;
border-bottom: 1px solid #ccc;
}
.job h4 {
position: absolute;
top: 0.35em;
right: 0;
}
.job p {
margin: 0.75em 0 3em 0;
}

.last {
border: none;
}

.skills-list ul {
margin: 0;
}
.skills-list li {
margin: 3px 0;
padding: 3px 0;
}
```

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```css
.skills-list li span {
font-size: 152%;
display: block;
margin-bottom: -2px;
padding: 0;
}
.talent {
width: 32%;
float: left;
}
.talent h2 {
margin-bottom: 6px;
}

#srt-ttab {
margin-bottom: 100px;
text-align: center;
}
#srt-ttab img.last {
margin-top: 20px;
}

.yui-gf .yui-u {
width: 80.2%;
}
.yui-gf div.first {
width: 12.3%;
}
```

The code can be cloned or downloaded using this link.

https://github.com/nischhal-hub/cv-resume

It can be viewed at following link:

https://nischhal-hub.github.io/cv-resume/

Output:

Conclusion:

HTML's structural elements and CSS's styling properties, crafting a compelling Curriculum Vitae (CV) becomes an intuitive endeavor. Employing CSS properties like margin and padding allows for precise layout control, ensuring information is well-organized and visually appealing. Properties such as color and background-color add vibrancy and emphasis to key sections, while text-transform enhances readability. Utilizing width and height attributes ensures consistency and balance, while line-height promotes legibility.