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**ROLL NO: 70**  
**CLASS: D15B**  
**IP EXPERIMENT**

## **EXPERIMENT - 1**

**AIM:** To study basics of HTML5 and basic tags of HTML5

### **THEORY:**

#### **Basics of HTML5, Structure of HTML5 Document.**

HTML 5 is a revision of the Hypertext Markup Language (HTML), the standard programming language for describing the contents and appearance of Web pages. One of the biggest differences between HTML5 and previous versions of the standard is that older versions of HTML require proprietary plugins and APIs. (This is why a Web page that was built and tested in one browser may not load correctly in another browser.) HTML5 provides one common interface to make loading elements easier. One of the design goals for HTML5 is to support multimedia on mobile devices. New syntactic features were introduced to support this, such as video, audio and canvas tags. HTML5 also introduces new features which can really change the way users interact with documents including:

- New parsing rules for enhanced flexibility
- New attributes
- Elimination of outmoded or redundant attributes
- Drag and drop capabilities from one HTML5 document to another
- Offline editing
- Messaging enhancements
- Detailed rules for parsing
- MIME and protocol handler registration
- A common standard for storing data in SQL databases (Web SQL)

#### **HTML5 Document Structure**

An HTML 5 document mainly consists of a Head and Body. The Head contains the data, which informs the browser and even web servers that it is an HTML 5 document. On the other hand, the Body contains content that web browsers actually display.

Each and every HTML 5 document employs a unique combination of elements and content to define a page. The structure of all the property documented pages is the same and contains:

- A declaration at the top, which indicates that it is an HTML 5 document
- A document header
- A document body

A collection of HTML 5 elements constitutes an HTML 5 document. Some of these elements are essential while others are optional. However, you can always find the following three elements on every page in addition to the DOCTYPE declaration at the top.

`<!DOCTYPE>` informs the browsers that it is actually an HTML 5 document. Although there are other types of DOC Types, this is the most commonly used declaration.

The DOCTYPE Declaration is followed by `<html></html>` opening and closing tags. These tags contain everything inside the document, including the Head and Body

`<head> </head>` opening and closing tags, follow the opening Html tag. These tags contain information about the body, title of the page, definitions, labels, etc.. In HTML 5, these elements are collectively known as HTML Head Elements.

After the closing head tag is the `<body> </body>` opening and closing body tags. They contain all the content which appears on the browser, as well as the related HTML 5 codes.

The following example contains all the basic elements you need to create an HTML 5 page.

```
<!DOCTYPE HTML>

<html>

<head>

<meta charset="utf-8">

<title>Basic Page Structure</title>

</head>

<body>

</body>

</html>
```

## Explain basic tags and their properties. (text formatting,anchor,img,list tag,tables etc)

### **Anchor Tag**

The <a> tag defines a hyperlink, which is used to link from one page to another. The most important attribute of the <a> element is the href attribute, which indicates the link's destination. By default, links will appear as follows in all browsers:

- An unvisited link is underlined and blue
- A visited link is underlined and purple
- An active link is underlined and red

### **Image Tag**

The <img> tag is used to embed an image in an HTML page. Images are not technically inserted into a web page; images are linked to web pages. The <img> tag creates a holding space for the referenced image. The <img> tag has two required attributes:

- src - Specifies the path to the image
- alt - Specifies an alternate text for the image, if the image for some reason cannot be displayed

### **Table Tag**

The <table> tag defines an HTML table. An HTML table consists of one <table> element and one or more <tr>, <th>, and <td> elements. The <tr> element defines a table row, the <th> element defines a table header, and the <td> element defines a table cell.

### **Other html tags:-**

<!--...-->	Specifies a comment
<!DOCTYPE>	Specifies the document type
<body>	Specifies the body element
<font>	Deprecated: Specifies text font, size, and color

<footer>	New Tag: Specifies a footer for a section and can contain information about the author, copyright information, et cetera.
<form>	Specifies a form

## **PROGRAMS:**

**(a) To create a personal profile using basic HTML tags.**

### **Program:**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Resume</title>
    <style>
        img {
            padding: 20px 10px;
        }
    </style>
</head>
<body>
    <h1 align="center">RESUME</h1>
    <hr><hr>

    <div>
        
        <h1><font color="#FFA500">Mayuri Shridatta
Yerande</font></h1>
        <p> <b>Email :</b> 2020.mayuri.yerande@ves.ac.in<br>
        <b>Contact :</b> 7045075845 <br>
        <b>Address :</b> VESIT , Chembur-4000071<br>
```

</div>

<h3><font color="#00008B">Objective:</font> </h3>

<p>To get an opportunity where I can make the best of my potential and contribute to organization's growth.</p>

<h3><font color="#00008B">Experience</font></h3></h3>

<li>Netflix</li>

<p> Worked as Design manager</p>

<li>Google Playstation </li>

<p> Worked as Project Manager</p>

<h3><font color="#00008B">Education:</font></h3>

<li><font color="#800000">Vivekanand Education Society's Institute Of Technology</font></li>

<p>Bachelor's of Education in Information Technology  
<br>Currently Studying in 3rd Year.</p>

<li><font color="#800000">PACE Junior Science College,Thane</font></li>

<p>2020 <br>HSC <br>91.8%</p>

<li><font color="#800000">D.A.V Public School, Airoli</font></li>

<p>2018 <br>CBSE <br>90.2%</p>

<h3><font color="#00008B">Skills:</font></h3>

<li>Web development</li>

<li>Database development</li>

<li>Software development</li>

<li>Leadership Quality</li>

<h3><font color="#00008B">Certificates:</font></h3>

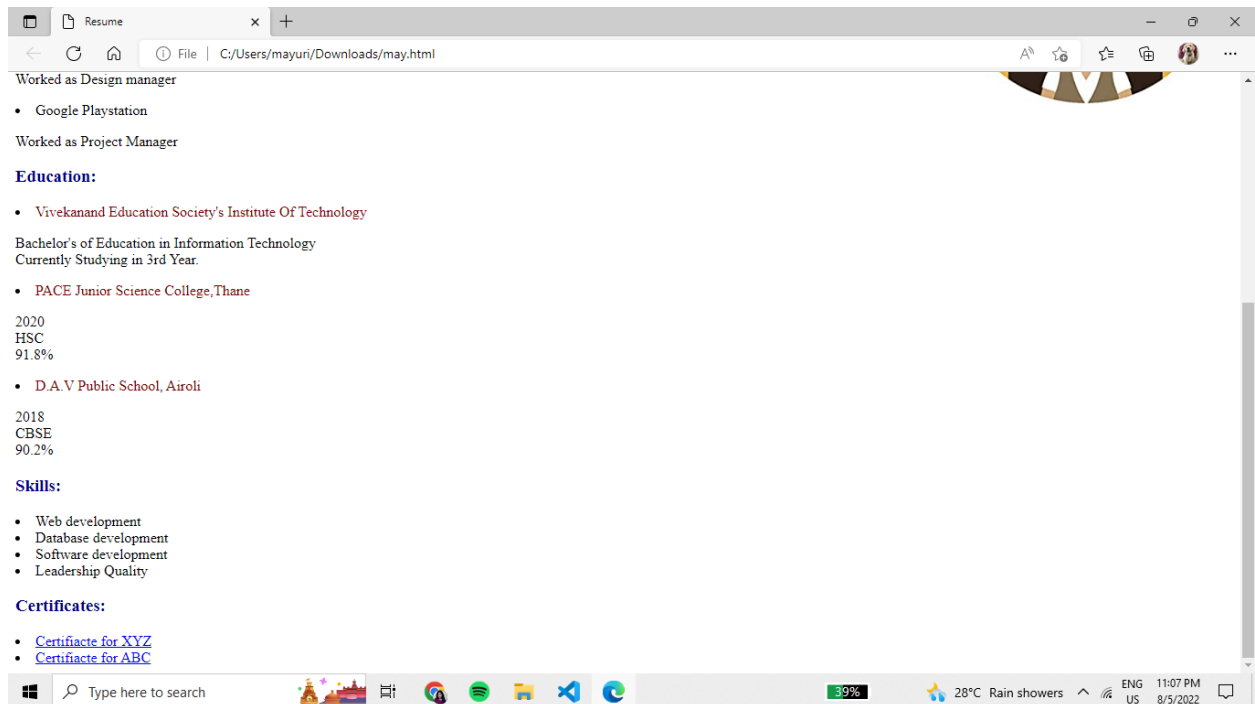
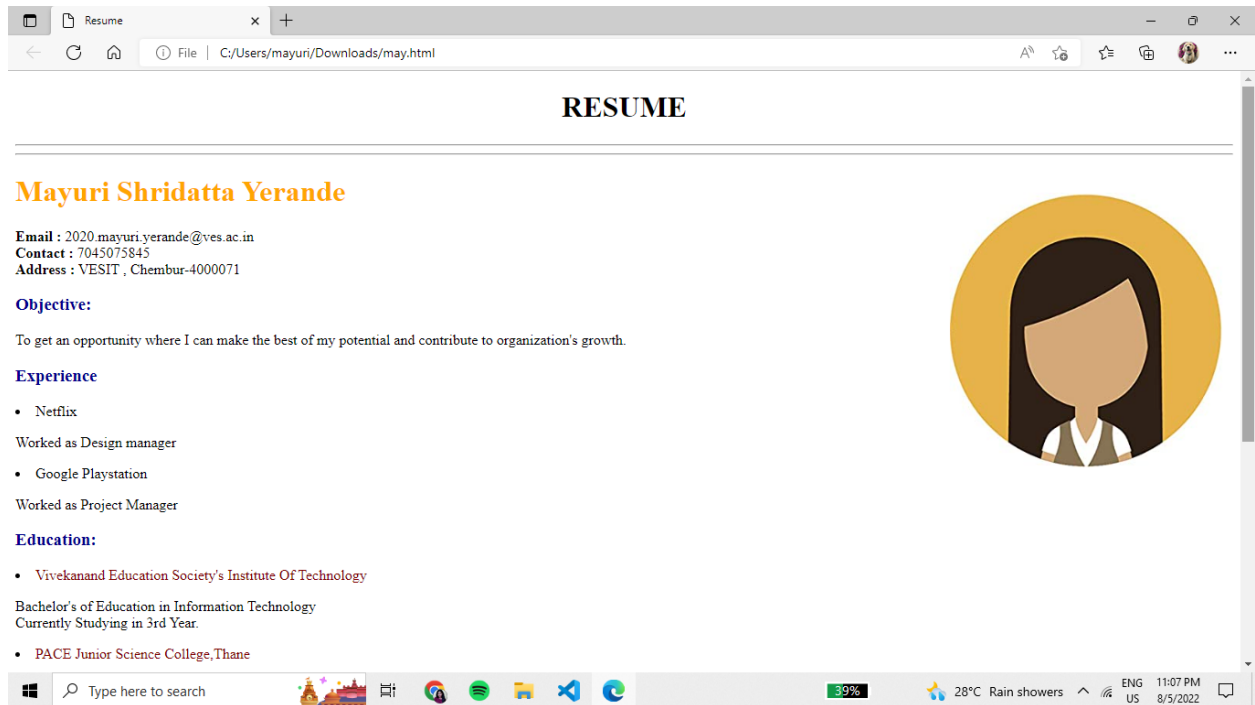
<li><a href="https://static.vecteezy.com/system/resources/previews/002/349/754/original/modern-elegant-certificate-template-free-vector.jpg">Certifiacte for XYZ</a></li>

<li><a href="https://graphicsfamily.com/wp-content/uploads/edd/2022/01/Award-Certificate-Template-1180x858.jpg">Certifiacte for ABC</a></li>

</body>

</html>

## Output:



## (b) Create Marksheet using advanced table tags

### Program:

```
<!DOCTYPE html>
<html>
<head>
  <body>
    <div class="topnav">
      
      <h1> <font color ="#3305A3"> Vivekanand Education
Society's Institute of Technology </font></h1>
      <h5>Hashu dwani Memorial Complex, Collectors Colony ,
Chembur, Mumbai, Maharashtra - 400074</h5>
    </div>
    <div>
      <h2><font color="black">Mayuri Shridatta
Yerande</font></h2>
      <b>Father's Name :</b> Shridatta ShivajiRao Yerande <br>
      <b>Date of Birth :</b> 26-03-2002 <br>
      <b>Contact :</b> 7045075845 <br>
      <b>Address :</b> VESIT , Chembur-4000071<br>
    </div>
<style>

table {
  font-family: arial, sans-serif;
  border-collapse: collapse;
  width: 100%;
  font-color: "black";
}

td, th {
  border: 1px solid #dddddd;
  text-align: left;
  padding: 8px;
  font-color = "black";
}
```

```
tr:nth-child(even) {
    background-color: #dddddd;
    font-color = "black";
}
</style>
</head>
<body>
```

```
<h1 align="center">SEM 4 Marksheet </h1>
```

```
<table>
  <tr>
    <th>Name</th>
    <th>IA I</th>
    <th>IA II</th>
    <th>Internal Termwork</th>
    <th>Practical</th>
    <th>Attendance</th>
  </tr>
  <tr>
    <td>Operating System</td>
    <td>19</td>
    <td>19</td>
    <td>20</td>
    <td>50</td>
    <td>100</td>
  </tr>
  <tr>
    <td>Computer Network and Network Design</td>
    <td>19</td>
    <td>15</td>
    <td>20</td>
    <td>50</td>
    <td>100</td>
  </tr>
  <tr>
    <td>Automata Theory</td>
    <td>19</td>
    <td>19</td>
    <td>20</td>
    <td>50</td>
```



	<td>98</td>
	</tr>
	<tr>
	<td>Computer Organization and Architecture</td>
	<td>19</td>
	<td>19</td>
	<td>20</td>
	<td>50</td>
	<td>94</td>
	</tr>
	<tr>
	<td>Engineering Mathematics</td>
	<td>15</td>
	<td>18</td>
	<td>20</td>
	<td>45</td>
	<td>80</td>
	</tr>

</table>
<br>
<br>

	<tr>
	<th>Marks Scored</th>
	<th>Total</th>
	</tr>
	<tr>
	<td>476</td>
	<td>500</td>
	</tr>

</table>
<h3> Total CGPI: 9.52 </h3>
<h4> DATE: 27-07-2022 </h4>
<div>  </div>
</body>
</html>

## Output:

**Vivekanand Education Society's Institute of Technology**  
Hashu dwani Memorial Complex, Collectors Colony , Chembur, Mumbai, Maharashtra - 400074

**Mayuri Shridatta Yerande**  
Father's Name : Shridatta Shivaji Rao Yerande  
Date of Birth : 26-03-2002  
Contact : 7045075845  
Address : VESIT , Chembur-4000071

### SEM 4 Marksheet

Name	IA I	IA II	Internal Termwork	Practical	Attendance
Operating System	19	19	20	50	100
Computer Network and Network Design	19	15	20	50	100
Automata Theory	19	19	20	50	98
Computer Organization and Architecture	19	19	20	50	94
Engineering Mathematics	15	18	20	45	80

Marks Scored	Total
476	500

**Total CGPI: 9.52**  
**DATE: 27-07-2022**

**CONCLUSION:** Basics of HTML5 and basic tags of HTML5 is studied and successfully implemented.