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IP EXPERIMENT

EXPERIMENT - 2

AIM: To study advanced tags of HTML5

THEORY:

HTML <div> tag:
The div tag is known as Division tag. The div tag is used in HTML to make divisions of content on the web page like (text, images, header, footer, navigation bar, etc). Div tag has both opening(<div>) and closing (</div>) tags and it is mandatory to close the tag. As we know Div tag is a block-level tag. In this example, the div tag contains the entire width. It will display the div tag each time on a new line, not on the same line.

HTML <span> tag:
The HTML span element is a generic inline container for inline elements and content. It used to group elements for styling purposes (by using the class or id attributes). A better way to use it when no other semantic element is available. The span tag is very similar to the div tag, but div is a block-level tag and span is an inline tag.

HTML Form tag: The <form> tag is used to create an HTML form for user input. The <form> element can contain one or more of the following form elements:

- <input>
- <textarea>
- <button>
- <select>
- <option>
- <optgroup>
- <fieldset>
- <label>
- <output>

Semantic tag:

A semantic element clearly describes its meaning to both the browser and the developer. Examples of non-semantic elements: <div> and <span> - Tells nothing about its content. Examples of semantic elements: <form>, <table>, and <article> - Clearly defines its content. Many web sites contain HTML code like: <div id="nav"> <div class="header"> <div id="footer"> to indicate navigation, header, and footer. In HTML there are some semantic elements that can be used to define different parts of a web page:

- <article>
- <aside>
- <details>
- <figcaption>
- <figure>
- <footer>
- <header>
- <main>
- <mark>
- <nav>
- <section>
- <summary>
- <time>

Multimedia tag:

Multimedia comes in many different formats. It can be almost anything you can hear or see, like images, music, sound, videos, records, films, animations, and more. Multimedia elements (like audio or video) are stored in media files. The most common way to discover the type of a file, is to look at the file extension. Multimedia files have formats and different extensions like: .wav, .mp3, .mp4, .mpg, .wmv, and .avi.

Audio tag:

The <audio> tag is used to embed sound content in a document, such as music or other audio streams. The <audio> tag contains one or more <source> tags with different audio sources. The browser will choose the first source it supports. The text between the <audio> and </audio> tags will only be displayed in browsers that do not support the <audio> element. There are three supported audio formats in HTML: MP3, WAV, and OGG.

Video tag:

The <video> tag is used to embed video content in a document, such as a movie clip or other video streams. The <video> tag contains one or more <source> tags with different video sources. The browser will choose the first source it supports. The text between the <video> and </video> tags will only be displayed in browsers that do not support the <video> element. There are three supported video formats in HTML: MP4, WebM, and OGG.

PROGRAMS:

(a) Design VESIT web site home page using advanced tags of HMTL5 (frame,div,semantic tags,multimedia tags etc.)
      Or
   Design News Portal web site home page using advanced tags of HMTL5 (frame,div,semantic tags, multimedia tags etc.)

Program:

Hello.html

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewsport" content="width=device-width,
initial-scale=1.0">
    <title>VESIT</title>
    <link rel="stylesheet" href="style (3).css">
</head>

<body>
    <div class="topnav">
        <a class="active" href="#home">Virtual tour</a>
        <a>Contact Us</a>
        <a >MHRD Initiative</a>
        <a>PRME</a>
        <a>ARIA</a>
```

```html
        <a >AICTE</a>
        <a >NIRF</a>
        <a>NBA</a>
        <a>>NAAC</a>
        <a>know your college</a>
        <a>Admission</a>
        <img src="https://vesit.ves.ac.in/navlogo.PNG"
alt="VESIT" width="220" height="80">
    </div>

    <div class="toptop">
        <a >About</a>
        <a >Academics</a>
        <a >Feedback forms</a>
        <a >Alumina</a>
        <a >Placements</a>
        <a >Examination</a>
        <a >Extension Activities</a>
        <a >Research and Innovation</a>
        <a >Infrastructure</a>
        <a >Student's Corner</a>


        <a>Academic calender</a>

    </div>
    <div class="image123">
        <div class="imgContainer">
            <br>
            <img src="vesit.png" height="800" width="400"/>

        </div>

        <div class="imgContainer">
            <br>
            <br>
            <br>
            <img
src="https://images.shiksha.com/mediadata/images/1558338398phpVH
5U8J.jpeg" height="350" width="900"/>
```

```html
            </div>

        </div>



</body>

</html>
```

Style (3).css

```css
.topnav {
    background-color: white;
    overflow: hidden;
}

/* Style the links inside the navigation bar */
.topnav a {
    float: right;
    color: #6495ED;
    text-align: center;
    padding: 14px 16px;
    text-decoration: none;
    font-size: 17px;
}

/* Change the color of links on hover */
.topnav a:hover {
    background-color: #ddd;
    color: white;
}

/* Add a color to the active/current link */
.topnav a.active {
    background-color: #04AA6D;
    color: white;
}

.toptop {
```

```css
        background-color: #204a84;
        overflow: hidden;
}


/* Style the links inside the navigation bar */
.toptop a {
        float: left;
        color: white;
        text-align: center;
        padding: 14px 16px;
        text-decoration: none;
        font-size: 17px;
}


.toptip {
        background-color: white;
        overflow: hidden;
}


/* Style the links inside the navigation bar */
.toptip a {
        float: left;

        align-content: right;
}



.imgContainer{
        float:left;
}
```
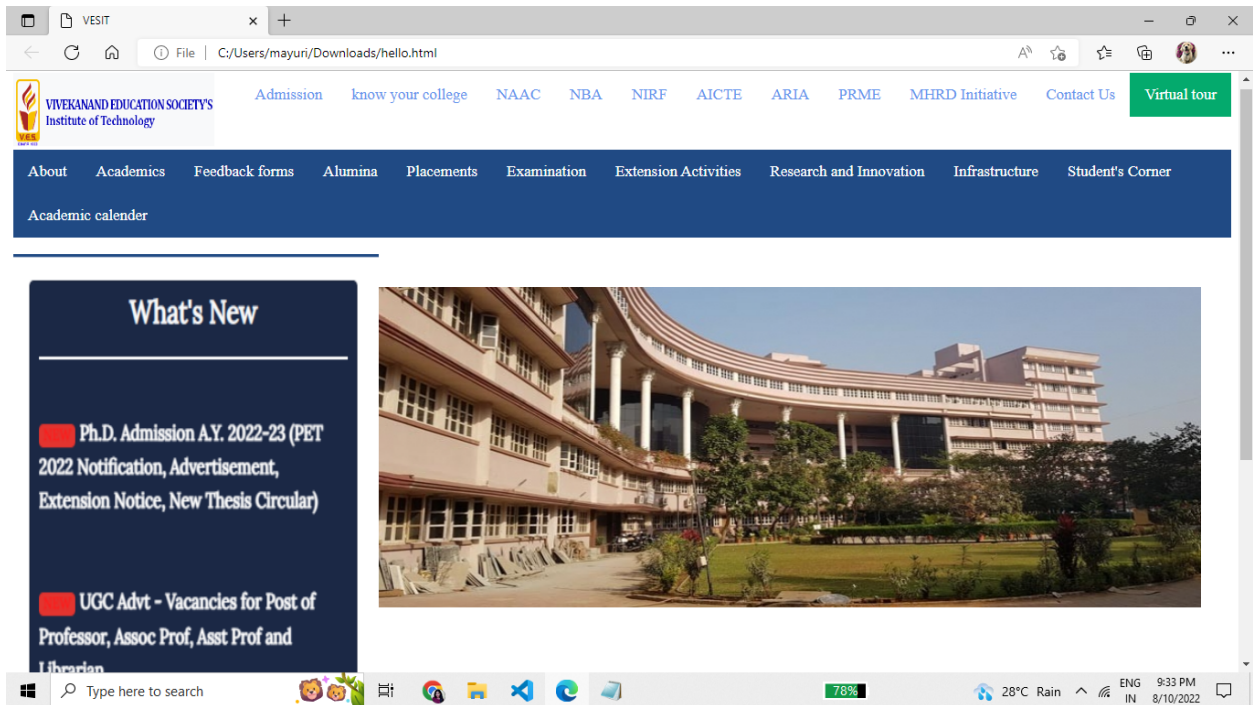
Output:

(b) Design FE admission form using HTML5 form tags.

Program:
```
<Html>

     <head>
          <title>
               Registration Page
          </title>
     </head>

     <body bgcolor="#CBC3E3">
          <br>
          <br>
          <form>

               <label> Firstname </label>
               <input type="text" name="firstname" size="15" />
<br> <br>
               <label> Middlename: </label>
```

```html
            <input type="text" name="middlename" size="15" />
<br> <br>
            <label> Lastname: </label>
            <input type="text" name="lastname" size="15" /> <br>
<br>
            <label> Date of Birth </label>
            <input type="date" name="dob" size="15" /> <br> <br>

            <label>
                Course :
            </label>
            <select>
                <option value="Course">Course</option>
                <option value="BCA">COMP</option>
                <option value="BBA">INFT</option>
                <option value="B.Tech">EXTC</option>
                <option value="MBA">ETRX</option>
                <option value="MCA">AIDS</option>
                <option value="M.Tech">INST</option>
            </select>

            <br>
            <br>
            <label>
                Gender :
            </label><br>
            <input type="radio" name="male" /> Male <br>
            <input type="radio" name="female" /> Female <br>
            <input type="radio" name="other" /> Other
            <br>
            <br>

            <label>
                Phone :
            </label>
            <input type="text" name="country code" value="+91"
size="2" />
            <input type="text" name="phone" size="10" /> <br>
<br>
            Address
            <br>
```

```html
            <textarea cols="80" rows="5" value="address">
    </textarea>
            <br> <br>
            Email:
            <input type="email" id="email" name="email" /> <br>
            <br> <br>
            Password:
            <input type="Password" id="pass" name="pass"> <br>
            <br> <br>
            Re-type password:
            <input type="Password" id="repass" name="repass">
<br> <br>
            <input type="submit" value="Submit" />
            <input type="reset" value="Reset" />
        </form>
    </body>

    </html>
```

Output:

Firstname [   ]

Middlename: [   ]

Lastname: [   ]

Date of Birth [dd-mm-yyyy 📅]

Course : [Course ▾]

Gender :
○ Male
○ Female
○ Other

Phone : [+91] [   ]

Address
[   ]

Email: [   ]

Password: [   ]

Re-type password: [   ]

[Submit] [Reset]

CONCLUSION: Advanced tags of HTML5 are studied and successfully implemented.