Ex 1: HTML BASIC TAGS

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Welcome Text Formatting</title>
</head>
<body>
<!__ Heading tags __>
<h1>WELCOME</h1>
<h2>WELCOME</h2>
<h3>WELCOME</h3>
<h4>WELCOME</h4>
<h5>WELCOME</h5>
<h6>WELCOME</h6>
<!__Bold text__>
<p><b>WELCOME</b></p>
<!__Italic text__>
<p><i>WELCOME</i></p>
<!__Underline text__>
<p><u>WELCOME</u></p>
<!__Strikethrough text__>
<p><s>WELCOME</s></p>
<!__Div tag with multiple formats__>
<div>
<p><b><i>WELCOME</i> to <u>everyone</u>. We respect everyone.</b></p>
</div>
<!__ Preformatted text __>
<pre>
Welcome to our Website!
Welcome everyone.
Welcome once again
</pre>
</body>
</html>
```

EX:2   LISTS AND LINKS

```
<!DOCTYPE html>
<html><head>
<meta charset="UTF-8">
<title>Computer Languages</title></head>
<body>
<h1>List of Computer Languages</h1><ul>
<1i><a href="html.html">HTML</a><li>
<li><a href="css.html">CSS</a></li>
<li><a href="javascript.html">javascript</a></li>
<li><a href="python.html">python</a></li>
<li><a href="java.html">java</a></li>
<li><a href="cplus.html">C++</a></li></ul>
</body></html>
```
html.html
```
<!DOCTYPE html>
<html><head>
<meta charset="UTF-8">
<title>HTML</title></head>
<body>
<h1>HTML(HyperText Markup Language)</h1>
<p>HTML is the standard markup language for creating web pages.</p>
<p><a href="EX2.html">Back to list</a></p></body></html>
```
css.html

```
<!DOCTYPE html>
<html><head>
<meta charset="UTF-8">
<title>CSS</title></head>
<body>
<h1>CSS(Cascading style sheets)</h1>
<p>CSS is a style sheet language . It describes the presentation of a document written in a markup languages like HTML.</p>
<p><a href="EX2.html">Back to list</a></p></body></html>
```

javascript.html
```
<!DOCTYPE html>
<html><head>
<meta charset="UTF-8">
<title>javascript</title></head><body>
<h1>javascript</h1>
<p>javascript is a programming language commonly used to create interactive effects within web browsers.</p>
<p><a href="EX2.html">Back to list</a></p></body></html>
```

python.html
```
<!DOCTYPE html>
<html><head>
<meta charset="UTF-8">
<title>python</title></head><body>
<h1>python</h1>
<p>python is a high-level, interpreted,and general-purpose programming language.</p>
<p><a href="EX2.html">Back to list</a></p></body></html>
```

java.html
```
<!DOCTYPE html>
<html><head>
<meta charset="UTF-8">
<title>java</title></head>
<body>
<h1>java</h1>
<p>java is a high-level, class-based, object-oriented programming language.</p>
<p><a href="EX2.html">Back to list</a></p></body></html>
```

cplus.html
```
<!DOCTYPE html>
<html><head>
<meta charset="UTF-8">
<title>C++</title>
</head><body>
<h1>C++</h1>
<p>C++ is a general -purpose programming language.it is an extension of the C programming language.</p>
<p><a href="EX2.html">Back to list</a></p>
</body></html>
```

EX 3: IMAGES AND LINK TAGS

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Computer Components</title>
</head>
<body>
<h1>Computer Components</h1>
<a href="components.html">
<img src="images/computer.jpg" alt="Computer" width="300" height="200">
</a>
<p>Click on the image to learn about the components of computer.</p>
</body>
</html>
```

COMPONENTS.html

```
<!DOCTYPE html>
<html>
<head>
```

```
<meta charset="UTF-8">
<title>Computer Components</title>
</head>
<body>
<h1>Computer Components</h1>
<h2>CPU</h2>
Central Processing Unit
<h2>RAM</h2>
Random access memory
<h2>Hard Disk</h2>
It is a non-volatile storage device.
<h2>Motherboard</h2>
It contains the CPU ,memory, and other essential components.
<h2>GPU</h2>
Graphics processing unit
<h2>Input Devices</h2>
Input devices are used to input data to The computer. Eg. keyboard, mouse
<h2>Output Devices</h2>
output devices are used to display or print the results obtained. Eg. Moniter , printer
</body>
</html>
```

EX 4: TABLE TAGS AND INTERNAL STYLE SHEETS

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Class Timetable</title>
<style>
    body{
     font_family:Arial;
     text-align: center;
     background-color: #f9f9f9;
     margin: 20px;
    }
 table {
     width:80%;
     margin:0 auto;
     border-collapse: collapse;
     background-color:#ffffff;
}
th,td{
     padding: 15px;
     text-alingn: center;
     border:2px solid #004080;
}
th {
     background_color: #004080;
     color: white;
     border-bottom: 4px solid #002050;
}
tr:nth_child(even) {
     background-color: #f2f2f2;
}
td {
```

```
        border_style: dashed;
        border-color: #004080;
    }
    td:nth-child(1) {
        border_style: double;
    td:nth-child(2) {
        border_style: dotted;
    }
    td:nth-child(3) {
        border-style:solid;
    }
    td:nth-child(4) {
        border_style: groove;
    }
    td:nth-child(5) {
        border-style:ridge;
    }
</style>
</head>
<body>
<h1>Second Computer Timetable</h1>
<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thrusday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Hour</td>
<td>RDBMS</td>
<td>RDBMS</td>
<td>DLD</td>
<td>RDBMS</TD>
<td>WDS</td>
</tr>
<tr>
<td>
<td>II Hour</td>
<td>DLD</td>
<td>DLD</td>
<td>WD</td>
<td>OS</TD>
<td>WDS</td>
</tr>
<tr>
```

```
<td>III Hour</td>
<td>RDBMSP</td>
<td>CPP</td>
<td>WDP</td>
<td>OSP</TD>
<td>DLDP</td>
</tr>
<tr>
<td>IV Hour</td>
<td>RDBMSP</td>
<td>CPP</td>
<td>WDP</td>
<td>OSP</TD>
<td>DLDP</td>
</tr>
<tr>
<td>V Hour</td>
<td>CP</td>
<td>ASC</td>
<td>SLI</td>
<td>ETS</TD>
<td>CA</td>
</tr>
<tr>
<td>VI Hour</td>
<td>CPP</td>
<td>ASCP</td>
<td>DLDP</td>
<td>GL</TD>
<td>H&W</td>
</tr>
<tr>
<td>VII Hour</td>
<td>CPP</td>
<td>ASCP</td>
<td>DLDP</td>
<td>GL</TD>
<td>H&W</td>
</tr>
</tbody>
</table>
</body>
</html>
```

EX 5: EXTERNAL STYLE SHEETS

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>College Webpage</title>
```

```
<link rel="stylesheet" href="EX5.css">
</head>
<body>
<header>
<h1>welcome to XXX polytechnic college</h1>
</header>
<main>
<section id="about">
<h2>About Us</h2>
<p>
XXX Polytechnic college is a prestigious institution offering a variety of courses and programs. our vision is to impart quality
education , skills and attributes based on continuously changing global standards and local industrial requirement.
</p>
<img src="images/College.jpg" alt="College Image">
</section>
</main>
<footer>
<p>&copy; 2024 XXX Polytechnic College. All rights reserved.</p>
</footer>
</body>
</html>
```

EX5.css

```
body {
    background-color: #f6f9fC;
    color: #222;
    font-family:'Arial',sans-serif;
    margin: 0;
    padding: 0;
    text-aling: center;
}
header {
    background-color: #014580;
    color: #fff;
    padding: 20px 0;
}
header h1 {
    margin: 0;
font-size: 2.5cm;
}
main {
    padding: 20px;
}
section#about h2 {
    margin: 20px auto;
    max-width: 800px;
    text-align: left;
}
section#about h2 {
    font-size: 2em;
```

```
        color: #004080;
}
section#about p {
        font-size: 1.2em;
        line-height: 1.6;
}
section#about img {
        max-width: 100%;
        height: auto;
        margin-top: 20px;
}
footer {
        background-color: #014580;
        color: #fff;
        padding: 10px 0;
        position: fixed;
        bottom: 0;
        width: 100%
}
```

EX 6: JAVASCRIPT OBJECTS AND FUNCTIONS

```html
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title24-Hour Clock</title>
<style>
body {
        font-family: Arial, sans-serif;
        text-aling: center;
        margin-top: 50px;
}
    #clock {
        font-size: 36px;
}
</style>
</head>
<body>
<h1>24-Hour Clock</h1>
<div id="Clock"></div>
<script>
    function updateClock() {
    const now = new Date();
    let hours = now.getHours();
    let minutes = now.getMinutes();
    let seconds = now.getSeconds();
// Add leading zero if hours,minutes,or seconds are less than 10
hours = hours <10 ? '0' + hours : hours;
minutes = minutes <10 ? '0' + minutes : minutes;
seconds = seconds <10 ? '0' + seconds : seconds;
```

```
const time = hours +':'+ minutes + ':' + seconds;
documents.getElementByTd('clock').textContent = time;
// Update the clock every second
setTimeout(updateClock,1000);
}
//initial call to update clock
updateClock();
</script>
</body>
</html>
```

EX: 7 JAVASCRIPT USER DEFINED OBJECTS AND MEDIA TAGS

```
<html>
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Media Control</title>
<style>
{
margin-top: 20px;
}
button {
margin-right: 10px;
}
</style>
</head>
<body>
<h1>Media Control Example</h1>
<video id="video" width="600" controls>
<source src="video.mp4" type="video/mp4">
Your browser does not support the video tag.
</video>
<audio id="audio" controls>
<source src="audio.mp3" type="audio/mpeg">
Your browser does not support the audio element.
</audio>
<div id="controls">
<h2>Video Controls</h2>
<button onclick="mediaController.play(video)">Play</button>
<button onclick="mediaController.pause(video)">Pause</button>
<button onclick="mediaController.stop(video)">Stop</button>
<h2>Audio Controls</h2>
<button onclick="mediaController.play(audio)">Play</button>
<button onclick="mediaController.pause(audio)">Pause</button>
<button onclick="mediaController.stop(audio)">Stop</button>
</div>
<script>
function MediaController() {
this.play = function(mediaElement) {
mediaElement.play();
```

```
};
this.pause = function(mediaElement) {
mediaElement.pause();
};
this.stop = function(mediaElement) {
mediaElement.pause();
mediaElement.currentTime = 0;
};
}
const mediaController = new MediaController();
const video = document.getElementById('video');
const audio = document.getElementById('audio');
</script>
</body>
</html>
```

EX 8: DOM

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Change Background Colour</title>
</head>
<body>
<h1>Change Background colour</h1>
<input type="text" id="colourInput" placeholder="enter a color or hex code in #FFFFFF format">
<button onclick="changeColour()">Change colour</button>
<script>
function changeColour()
{
const color = document.getElementById("colourInput").value;
document.body.style.backgroundcolor = color;
}
</script>
</body>
</html>
```

EX 9: EVENT HANDLING

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>simple calculator</title>
<style>
body {
font-family:arial,sans-serif;
margin:30px;
}
input, button {
margin :10px;
}
</style>
</head>
<body>
```

```html
<h1>simple calculator</h1>
<input type="number"id="n1" placeholder="enter first number">
<input type="number"id="n2" placeholder="enter second number">
<br>
<button onclick="calculate('+')">+</button>
<button onclick="calculate('-')">-</button>
<button onclick="calculate('*')">*</button>
<button onclick="calculate('/')">/</button>
<br>
<input type="text"id="result"placeholder="result"readonly>
<script>
function calculate(operation)
{
const n1 = parseFloat(document.getElementById('n1').value);
const n2 = parseFloat(document.getElementById('n2').value);
let result;
if (operation === '+')
{
result = n1+n2;
}
else if (operation === '-')
{
result = n1-n2;
}
else if (operation === '*')
{
result = n1*n2;
}
else if (operation === '/')
{
result = n1/n2;
}
document.getElementById('result').value = result;
}
</script>
</body>
</html>
```

EX 10 : FORMS & FORM VALIDATION

```html
</DOCTYPE html>
<html lang="en">
<head>
<meta charet="UTF-8">
<meta name="viewport" content="width=device-width,inital-scale=1.0">
<title>form with validation</title>
<style>
body {
font-family:arial,sans-serif;
margin:20px;
}
input,textarea, button {
margin:5px 0;
display: block;
}
label {
```

```
        margin-top:10px;
        }
        div
        {
        margin-bottom: 10px;
        }
        </style>
        </head>
        <body>
        <h1>Registration Form</h1>
        <form id="registration form" onsubmit="return validateForm()">
        <label for="username">Username:</label>
        <input type="text"id="username"name="username"required>
        <label for="email">Email:</label>
        <input type="email"id="email"name="email"required>
        <label for="password">password:</label>
        <input type="password" id="password" name="password" required>
        <label for="confirmpassword"> retype password:</label>
        <input type="password" id="confirmpassword" name="confirmpassword" required>
        <label>gender:</label><input type="radio" id="male" name="gender" value="male">
        <label for="female">female</label>
        <br>
        <label>languages knoun:</label>
        <input type="checkbox"id="english"name="languages"value="english">
        <label for="english">english</label>
        <input type="checkbox"id="spanish"name="languages"value="spanish">
        <label for="spanish">spanish</label>
        input type="checkbox"id="french"name="languages"value="french">
        <label for="french">french</label>
        <br>
        <label for="description">describe yourself:<?label>
        <textarea id="description"name="description"rows="4"cols="50"></textarea>
        <button type="submit">submit</button>
        </form>
        <script>
        function validateform(){
        //Get from values
        const username = document.getelementbyId('username').value;
        const email = document.getElementById('email').value;
        const password = document.getElementById('password').value;
        const confirmpassword = document.getElementById('confirmpassword').value;
        //validate username length
        if(username.length<8){
        alert('username must be atleast 8 characters long.');
        result false;
        }
        //validate email format
        if(!email.includes('@')){
        alert('email must contain @ symbol.');
        result false;
        }
```

```
//validate password match
if(password !== confirmpassword){
alert('passwords do not match.');
result false;
}
//if all validations pass,allow form submission
return true;
}
</script>
</body>
</html>
```