

1. TEXTFORMATTING

Aim:

To write a HTML code to display welcome text using different text formatting tags.

Procedure:

Step1: Open the notepad.

Step2: Start the program.

Step3: Type the source code in notepad and the following tags are used

- (i) used for bold.
- (ii) <u> used for underline.
- (iii) <i> used for italic.
- (iv) <p> used for paragraph.
- (v) <Div> used for division.
- (vi) <Pre>used for preformatted text.

Step5: save it in the for filename.html format.

Step6: To run the program.

Step7: Stop the program.

Program:

```
<!DOCTYPE html>
<html>
<head>
<title>TextFormatting</title>
</head>
<body>
<h1 align="center">Text Formatting</h1><br>
The Text is <b>WELCOME</b><br>
The Text is <i>WELCOME</i><br>
The Text is <u>WELCOME</u><br>
The Text is <strike>WELCOME</strike><br>
The Text is <div>WELCOME</div><br>
The Text is <p>WELCOME</p><br>
The Text is <pre>WELCOME</pre><br>
</body>
</html>
```

Result:

There for the web page is successfully designed.

2. LISTS AND LINKS

Aim:

Design a HTML page to list the computer languages where each languages is a link. Prepare separate HTML documents for each language and call them in the appropriate link.

Procedure:

The following tags are used.

Tagdescription

<HTML>Defines an HTML document
<body>Defines the document's body
<h1>to<h6>Defines header1 to header6
<p>Defines a paragraph

Inserts a single line break
<hr>Defines a horizontal rule
<!-->Defines a comment
<bgcolor>Defines the background color
<imgsrc>It is used to add images in the webpage
<href>It is used to make link with other web page
<title>Defines the document's title

Program:

second.html:

```
<!DOCTYPE html>

<html>

<head>
Language</head>
<body>
<br>
<a href="friend1.html">Java</a><br>
<a href="friend2.html">C</a><br>
<a href="friend3.html">C++</a><br>
</body>
</html>
```

friend1.html:

```
<html>
<head></head>
<body>
<p>Java is a object oriented language</p>
<br>
<a href="second.html">Home</a><br>
</body>
</html>
```

friend2.html:

```
<!DOCTYPE html>

<html>
<head></head>
<body>
<p>C is a object oriented language</p>
<br>
<a href="second.html">Home</a><br>
</body>
</html>
```

friend3.html:

```
<!DOCTYPE html>
<html>
<head></head>
<body>
<p>C++ is a procedure as well as object oriented</p>
<br>
<a href="second.html">Home</a><br>
</body>
</html>
```

Result:

Thus the web pages are created with lists and links executed successfully.

3. IMAGES AND LINK TAGS

Aim:

To write a HTML program to display the image of computer as a link to the web page describing the components of computers.

Procedure:

The following tags are used.

Tagdescription

<HTML>Defines an HTML document

<body>Defines the document's body

<h1>to<h6>Defines header1 to header6

<p>Defines a paragraph

Inserts a single line break

<hr>Defines a horizontal rule

<!-->Defines a comment

<bgcolor>Defines the background color

It is used to add images in the webpage

<a href>It is used to make link with other web page

<title>Defines the document's title

Program:

computer.html

```
<!DOCTYPE html>
<html>
<head><p align="center"><b>COMPUTER</b></p>
<hr></head>
<body>
<a href="a.html">First link</a><br>
<p align="centre"></img> </p>
</body>
</html>
```

a.html

```
<!DOCTYPE html>
<html>
<head>Firstlink</head><br>
<body>
<a href="computer.html">Home</a><br>
<p><u>COMPONENTS OF COMPUTERS</u>
<OL TYPE="1" START="1">
```

```
<LI>Mother Board
<LI>Central Processing Unit
<LI>Random Access Memory
<LI>Hard Drive
<LI>Video card
<LI>Power Supply Unit
<LI>Network Card
</OL>
</p>
</body>
</html>
```

Result:

Thus the web pages are created with images and link tags executed successfully

4. TABLE TAGS AND INTERNAL STYLE SHEETS

Aim:

To Develop a web page using CSS to create a time table for the class using different border style.

Procedure:

Open a new file.

Write the basic HTML tags.

<style>used to change the font-type,size and color of the page.

<table>used to create table.

The following tags are present inside the table tags

<TR>used to create horizontal rows of cells.

<TH>used to define the heading of cells in the table.

<TD>used to define the data of each cells in the table.

Close the all tags.

Program:

```
<!DOCTYPE html>
<html>
<head>
<title>TimeTable</title>
<style type="text/css">
h1 { font-family:arial,helvita;font-size:16pt;color:red;}
body { font-family:times,serif;font-size:20pt;color:blue;background:pink;} h2 { font-
family:monospace,sans-serif;font-size:18pt;color:red;}
</style>
</head>
<body>
<table border="5">
<tr>
<td><h2>Hour/Days</h2></td>
<td><h2>Monday</h2></td>
<td><h2>Tuesday</h2></td>
<td><h2>Wednesday</h2></td>
<td><h2>Thursday</h2></td>
<td><h2>Friday</h2></td>
</tr>
<tr>
<td><h2>First</h2></td>
```

```
<h1><td>WD</td>
<td>RDBMS</td>
<td>OS</td>
<td>C PROGRAM</td>
<td>DLD</td>
</h1>
</tr>
<tr>
```

```
<td><h2>Second</h2></td>
<h1>
<h1><td>DLD</td>
<td>OS</td>
<td>WD</td>
<td>RDBMS</td>
<td>C PROGRAM</td>
</h1>
</tr>
<tr>
```

```
<td><h2>Third</h2></td>
<h1>
<h1><td>OS</td>
<td>DLD</td>
<td>C PROGRAM</td>
<td>WD</td>
<td>RDBMS</td>
</h1>
</tr>
<tr>
```

```
<td><h2>Fourth</h2></td>
<h1>
<h1><td>RDBMS</td>
<td>C PROGRAM</td>
<td>DLD</td>
<td>OS</td>
<td>WD</td>
</h1>
</tr>
```

```
<tr>
<td><h2>Fifth</h2></td>
<h1>
<h1><td>DLD LAB</td>
<td>WD</td>
<td>PET</td>
<td>LIB</td>
<td>OS</td>
</h1>
</tr>
</table>
</body>
</html>
```

Result:

Thus the time table is created using CSS and executed successfully.

5. EXTERNAL STYLE SHEETS

Aim:

To design a webpage of your college with attractive background color, text color, font face an image by using external CSS formatting.

Procedure:

Step1: Open the notepad.

Step2: Start the program.

Step3: Create Style.css file.

Step4: Create .CSS class with color: red , pink, blue, magenta and font-family: Arial, set color: green or the text which uses h1,h2,h3,h4 tag.

Step5: Open an other notepad and create html file.

Step6: In this, we are creating<link rel="stylesheet" type="text/css" href="style.css">

Step7:Finally, use the classes inside the document to corresponding tags.

Step 8: Stop the program.

Program:

style.css

```
h1
{
text-align:center; color:red;
text-decoration:underline;
}
h2
{
color:blue;
font-style:italic; font-size:30;
}
h3
{
color:pink;
font-style:italic; font-size:30;
}
h4
{
color:magenta;
font-style:italic; font-size:30;
}
p
{
```

```
color:skyblue;
font-style:italic; font-size:30;
}
```

External.html

```
<!DOCTYPE html>
<html>
<head>
<title>142-GOVERNMENT POLYTECHNIC COLLEGE</title>
<link rel="stylesheet" type="text/css" href="style.css">
</head>
<body bgcolor="white">
<h1>142-GOVERNMENT POLYTECHNIC COLLEGE</h1>
<h2><u>history</u></h2>
<p align="justify"> 142 GOVERNMENT POLYTECHNIC COLLEGE was established in
July 2017 by Government of Tamil nadu, a well-known Philanthropist, missionary and
Industrialist and Shri TS Narayanaswamy, Industrialist and former Sheriff of Madras, who
were the founders of The India Cements Ltd.. <br>
<center></center>
<h3>Courses Offered
<ul type="DISC">
<li>CIVIL</li>
<li>EEE</li>
<li>CSE</li>
<li>MECH</li>
<li>ECE</li>
</ul></h3>
<h4>
Give the details for your college<br>
<center><u>CAMPUS</u></center>
We have Library,Computer Center,Hostel,Canteen and Student service Center inside the
college.<br>
<center><u>Contact details</u></center>
<br>Phone:04342-260578
<br>Website:gptcklm.co.in
</h4>
</body>
</html>
```

Result:

Thus the college web site is created successfully

6. JAVASCRIPT OBJECTS AND FUNCTIONS

Aim:

To write JavaScript program to create a clock in 24 hours format using Date Object.

Procedure:

Step1: Open the notepad.

Step2: Start the program.

Step3: Type the source code in notepad.

Step4: In the script tag include the function for date, hours, minutes, seconds, time

Step4: Finally, use the classes inside the document to corresponding tags.

Step5: Stop the program.

Program:

```
<!DOCTYPE html>

<html>
<head></head>
<title>24 hour format</title>
<body onload="startTime()">
<h1>24 hour format</h2>
<div id="txt"></div>
<script>
function startTime() {
  const today = new Date();
  let h = today.getHours();
  let m = today.getMinutes();
  let s = today.getSeconds();
  m = checkTime(m);
  s = checkTime(s);
  document.getElementById('txt').innerHTML = h + ":" + m + ":" + s;
  setTimeout(startTime, 1000);
}
function checkTime(i) {
  if (i < 10) {i = "0" + i};
  return i;
}
</script>
</body>
</html>
```

Result:

Thus the create a clock in 24 hours format using Date Object is created successfully.

7. JAVASCRIPT USER DEFINED OBJECTS AND MEDIA TAGS

Aim:

To write JavaScript program to control the audio/video in a web page.

Procedure:

Step1: Open the notepad.

Step2: Start the program.

Step3: To control the video use the following method

- i) On click ="play video"
- ii) On click ="pause video"
- iii) On click ="stop video"

Step4: Include the source file in the source tag.

Step5: In the script tag include the function for play, pause and stop.

Step5: Stop the program.

Program:

```
<!DOCTYPE html>

<html>
<body>
<button onclick="playVideo()" type="button">Play</button>
<button onclick="pauseVideo()" type="button">Pause</button>
<button onclick="stopVideo()" type="button">Stop</button><br>
<video id="myVid" width="400" height="200">
<source src="E:\roja\new wd\new web\7\Swans - 1287.mp4">
</video>
<script>
var myVideo=document.getElementById("myVid");
function playVideo()
{
myVideo.play();
}
function pauseVideo()
{
myVideo.pause();
}
function stopVideo()
{
myVideo.pause();
myVideo.currentTime=0;
}
</script>
</body>
</html>
```

Result:

Thus the control the audio/video in a web page is created successfully.

8. DOCUMENT OBJECT MODEL

Aim:

To write JavaScript program to change the color of a web page to the color typed by the user in the textbox.

Procedure:

Step1: Open the notepad.

Step2: Start the program.

Step3: Create the text box in the place holder type the color.

Step4: Create the button in on click function.

Use the function

Function changecolour()

Step5: Get the color input value and change the background color.

Step5: Stop the program.

Program:

```
<!DOCTYPE html>

<html>
<head></head>
<title>DOM</title>
<body>
<h1>change background color</h1>
<input type="text" id="colourInput" placeholder="enter a color">
<button onclick="changeColour()">change Colour</button>
<script>
function changeColour()
{
const color = document.getElementById('colourInput').value;
document.body.style.backgroundColor = color;
}
</script>
</body>
</html>
```

Result:

Thus the above program is executed successfully.

9. EVENT HANDLING

Aim:

To Write a JavaScript program to develop a simple calculator (with basic arithmetic operations like add, subtract, multiply, divide, equal to) by getting two numbers in two text boxes, buttons for operations and display the result in the third text box.

Procedure:

Step1: Open the notepad.

Step2: Start the program.

Step3: Create the input type number in the place holder type the firstnumber and secondnumber.

Step4: Create the button in on click function.

- i) Addition
- ii) Subtraction
- iii) Multiplication
- iv) Division

Step5: Create the text box in the place holder type the result.

Step6: Use the function

Function changecolour()

Step7: By using the if statement, the corresponding option is executed.

Step8: Stop the program.

Program:

```
<!DOCTYPE html>

<html>
<head>
<title>Arithmetic Operation</title>
</head>
<body>
<h1>simple calculator</h1>
<input type="number" id="n1" placeholder="Enter firstnumber">
<input type="number" id="n2" placeholder="Enter secondnumber">
<br>
<br>
<button onclick="calculate('+')">+</button>
<button onclick="calculate('-')">-</button>
<button onclick="calculate('*')">*</button>
<button onclick="calculate('/')">/</button>
```

```
<br>
<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;
}
if(operation === '-')
{
result = n1 - n2;
}
if(operation === '*')
{
result = n1 * n2;
}
if(operation === '/')
{
result = n1 / n2;
}
document.getElementById('result').value = result;
}
</script>
</body>
</html>
```

Result:

Thus the above program is executed successfully.

10. Forms And Form Validation

Aim:

To Create a form with text fields such as username, mail id, password, retype password, gender (radio), languages known (check box), Describe yourself (textarea), submit button and perform form validation .

Procedure:

Step 1: Open the notepad.

Step 2: Start the program.

Step 3: By using <input type="text"> tag make a name form.

Step 4: By using <input type="email"> tag make an email form.

Step 5: By using<input type="number">tag make a number form.

Step 6: By using <input type="radio">tag make a gender form.

Step 8: By using <textarea> tag make a comment form.

Step 9: By using <script> tag make an alert by click on submit button.

Step8: Stop the program.

Program:

```
<!DOCTYPE html>
<html>
<head>
<title>Forms in HTML</title>
</head>
<body>
<h1><u><center>StudentBio-Data</center></u></h1>
<center>
<form>
UserName:
<input type ="text" name="myname"><br><br>
Email.ID:
<input type="email" name="emailid"><br><br>
Password:
<input type="text" name="text"><br><br>
Retype password:
<input type="text" name="text"><br><br>
Gender:
<input type="radio" name="gender">
Male
<input type="radio" name="gender">
Female
```

```
<input type="radio" name="gender">Other<br><br>
Language Known:<br><br>
<input type="checkbox" name="chkb1">TAMIL<br><br>
<input type="checkbox" name="chkb2">ENGLISH<br><br>
<input type="checkbox" name="chkb3">TELGU<br><br>
Describe yourself:<br>
<textarea>Enter Here...</textarea><br><br>
<input type="submit" name="button" onclick="submitted()" value="submit">
<script type="text/javascript">function submitted()
{
alert("Your details is submitted");
}
</script>
</form>
</center>
</body>
</html>
```

Result:

Thus the above program is executed successfully.