



CSE3002 – INTERNET AND PROGRAMMING

CONSOLIDATED LAB REPORT

Slot – L7 + L8

Date – 10th Nov, 2022

Faculty – Dr. V Muthumanikandan

ANSH GOEL

20BCE1798

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NAME – ANSH GOEL

REGISTER NO. – 20BCE1798

COURSE NAME – INTERNET AND WEB PROGRAMMING

COURSE CODE – CSE3002

LAB – 1

BASIC HTML EXERCISE

1. HTMLTEXT EXERCISES

- i. Print your name in green
 - ii. Print the numbers 1 - 10, each number being a different color.
 - iii. Prints your name in a Tahoma font.
 - iv. Display a part of a word with bold underline.
 - v. Print a paragraph with 4 - 5 sentences. Each sentence should be a different font
 - vi. Print a paragraph that is a description of a book; include the title of the book as well as its author. Names and titles should be underlined, adjectives should be italicized and bolded.
 - vii. Print your name to the screen with every letter being a different heading size.
 - viii. Write a comment line on your code and make sure it is not displayed in the page
 - ix. Print $a^2+b^2=2ab$
 - x. Print H₂O
 - xi. Display a c code as it is in the page
 - xii. Set the background color of the page as yellow
 - xiii. Set an image as background of the page
 - xiv. Set the font size as 10. Print it. Again try to decrease the font size.
Check whether the font size is reduced.
 - xv. Apply marquee for your name
 - xvi. Display a paragraph contents in a single line.
- Display 2 paragraph contents using div.

HTML CODE FOR ALL THE QUESTIONS:

```
<!DOCTYPE html>

<html>

<head>
    <title>Q1</title>
</head>

<body>
    <h1>HTML TEXT EXERCISES</h1>
    <h4 style="background-color:#00FF00;">ANSH GOEL (20BCE1798)</h4>
    <h1>Q1)Numbers From 1 to 10</h1>
    <h5 style="background-color:#808000;">1</h5>
    <h5 style="background-color:#CD5C5C;">2</h5>
    <h5 style="background-color:#FFA07A;">3</h5>
    <h5 style="background-color:#DC143C;">4</h5>
    <h5 style="background-color:#FF0000;">5</h5>
    <h5 style="background-color:#00FF00;">6</h5>
    <h5 style="background-color:#0000FF;">7</h5>
    <h5 style="background-color:#FFFF00;">8</h5>
    <h5 style="background-color:#CC00FF;">9</h5>
    <h5 style="background-color:#FFD700;">10</h5>
    <h1 style="font-family:tahoma;">ANSH GOEL (20BCE1798)</h1>
    <h3>This Exercise is done by <b><u>ANSH GOEL (20BCE1798)</u></b></h3>
    <p>
        <font face="Arial">Hi, i'm Ansh Goel, born and brought up in UP.</font>
    </p>
    <p>
        <font face="Times New Roman">Currently pursuing B.Tech from VIT</font>
    </p>
    <p>
```

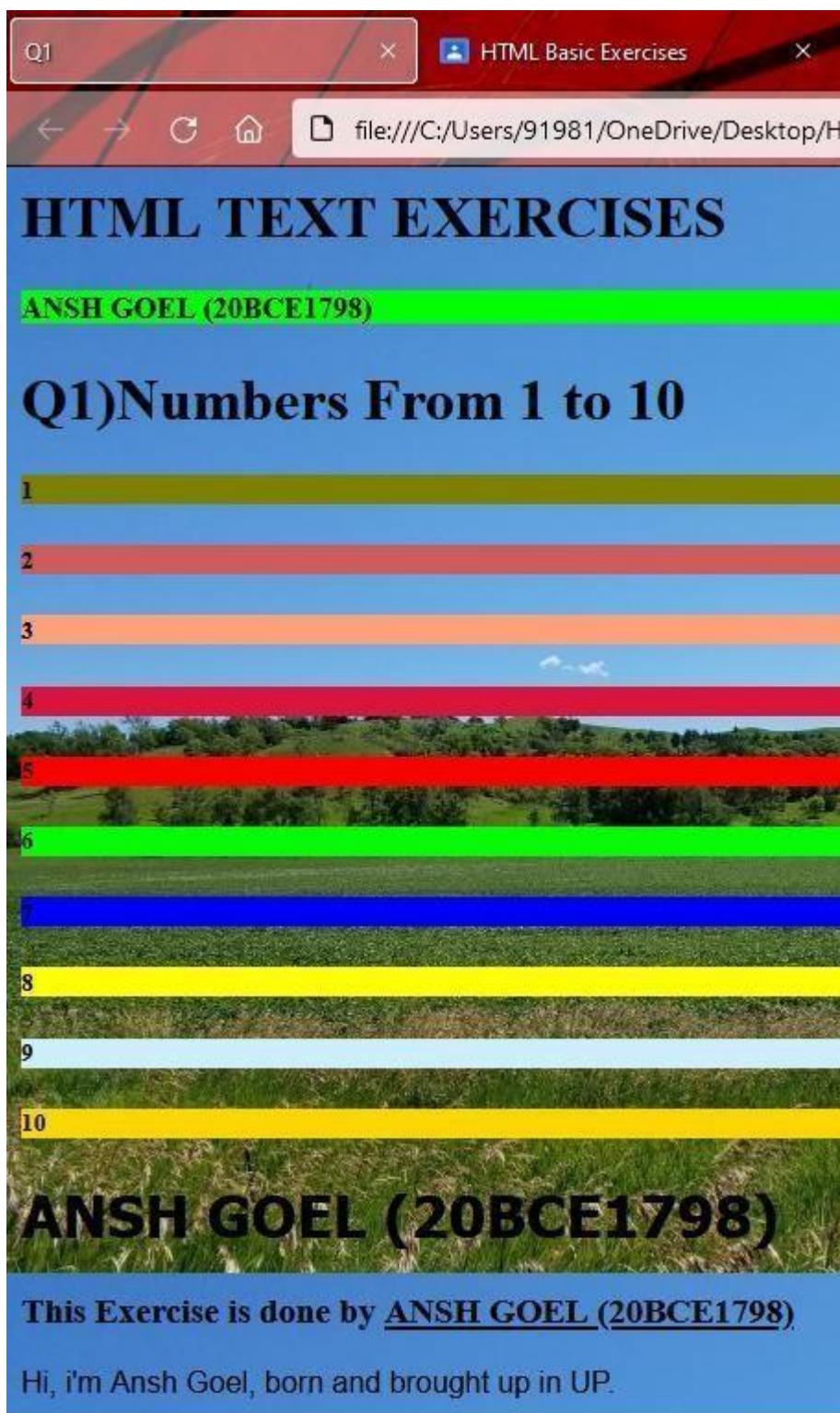
```

<font face="Verdana">This is Html exercises</font>
</p>
<p>
<font face="Tahoma">I'm done with question 5</font>
</p>
<p><h3>This is a description of a book</h3>
The name of the book is Concepts of Physics. The book is about physics subject which is
<b><i>helpful</i></b> for the students who are preparing for JEE.
<h4><u>Title - Concept of Physics</u></h4>
<h4><u>Name - H.C. VERMA</u></h4>
<h1>A</h1><h2>N</h2><h3>S</h3><h4>H</h4><h5>G</h5><h6>O</h6><h5>E</h5>
<h4>L</h4>
<!-- This is a comment q11,q14 -->
<p>This is a paragraph for showing that i used comments.</p>
<!-- Comments are not displayed in the browser -->
<h3>a<sup>2</sup>+b<sup>2</sup>=2ab</h3>
<h3>H<sub>2</sub>O</h3>
<body style="background-color:grey;">
<body background="https://1.bp.blogspot.com/-sTxAHAxirGM/WVbAe2098nI/AAAAAAABENs/_l5sYMYgLOUzaIE7FfF4qdGX-hoAkq9SgCLcBGAs/s1600/Blog_20170624_113552.jpg">
<body background-repeat: no-repeat;>
<marquee direction = "right"><h1>ANSH GOEL</h1></marquee>

</body>
</html>

```

OUTPUT:



Q1 X HTML Basic Exercises X Come Alive • The Kid Daytona X Dashboard

← → ⌛ ⌂ file:///C:/Users/91981/OneDrive/Desktop/Html_Lab1.html

Hi, i'm Ansh Goel, born and brought up in UP.

Curently pursuing B.Tech from VIT

This is Html exercises

I'm done with question 5

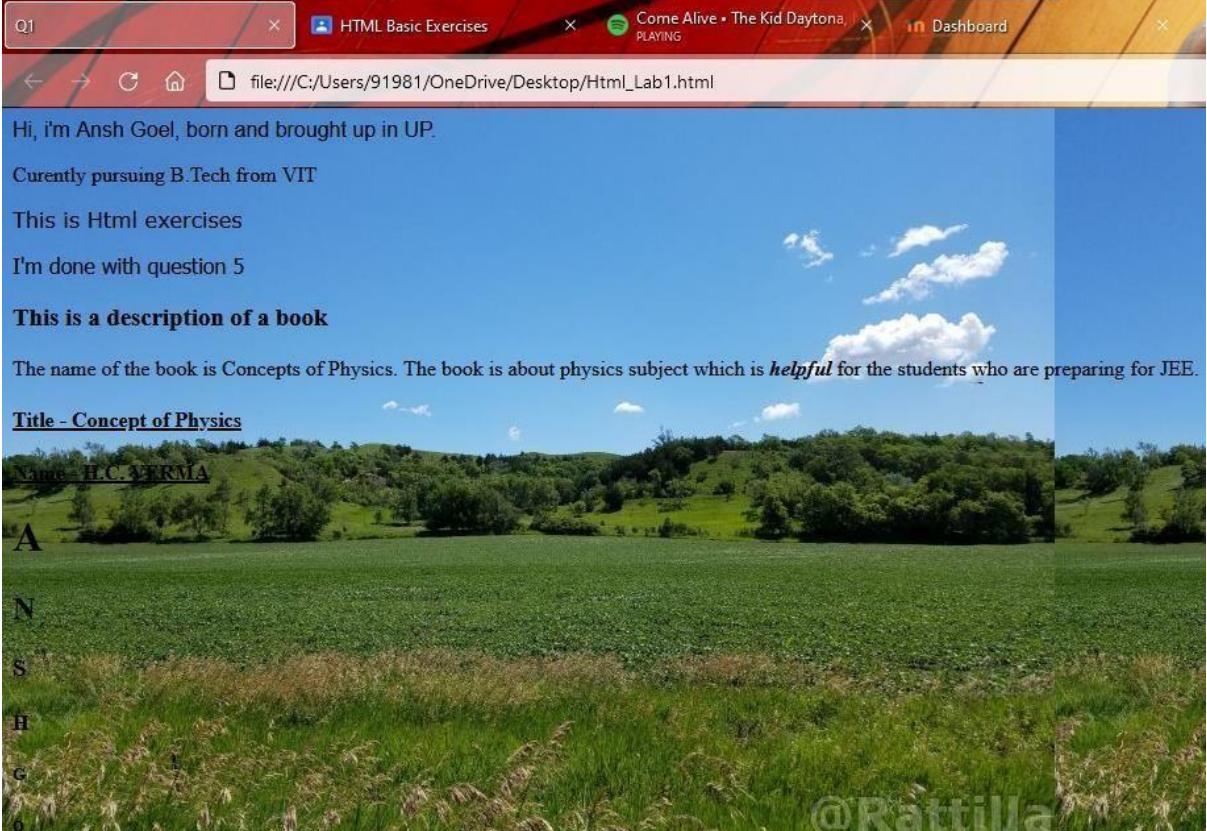
This is a description of a book

The name of the book is Concepts of Physics. The book is about physics subject which is *helpful* for the students who are preparing for JEE.

Title - Concept of Physics

Name - H.C. VERMA

A
N
S
H
G
E
L



@Rattilla

This is a paragraph for showing that i used comments.

$a^2+b^2=2ab$

H₂O



ANSH GOEL

7

NAME – ANSH GOEL

REGISTER NO. – 20BCE1798

COURSE NAME – INTERNET AND WEB PROGRAMMING

COURSE CODE – CSE3002

DATE – 2nd August, 2022

LAB – 2

Html text formatting Exercises

Aim – To execute html text formatting exercise

Procedure – Use whatever the professor told

Result - The above exercises have been solved using formatting, list and images in HTML.

1. HTML TEXT FORMATTING, LISTS and IMAGE EXERCISES

- a. Print the squares of the numbers 1 - 20. Each number should be on a separate line, next to it the number 2 superscripted, an equal sign and the result.
- b. Prints 10 names with a line break between each name. The list should be alphabetized, and to do this place a subscripted number next to each name based on where it will go in the alphabetized list. (Example: Alan₁). Print first, the unalphabetized list with a subscript number next to each name, then the alphabetized list. Both lists should have an <h1> level heading.
- c. Print two lists with any information you want. One list should be an ordered list, the other list should be an unordered list
- d. Print a list which starts with 7 with the type i
- e. Prints an h1 level heading followed by a horizontal line whose width is 100%. Below the horizontal line print a paragraph relating to the text in the heading.
- f. Print a definition list with 5 items
- g. Print two addresses in the same format used on the front of envelopes (senders address in top left corner, receivers address in the center)
- h. Print ten acronyms and abbreviations of your choosing, each separated by two lines. Specify the data that the abbreviations and acronyms represent
- i. Display five different images. Skip two lines between each image. Each image should have a title.
- j. Display an image that has a border of size 2, a width of 200, and a height of 200.
- k. Display the image towards the right corner of the webpage

CODE:

```
<!DOCTYPE html>

<html>
<head>
<title>LAB - 2</title>
</head>
<body>

<h5> 1<sup>2</sup> =1</h1>
<h5> 2<sup>2</sup> = 4</h1>
<h5> 3<sup>2</sup> =9</h1>
<h5> 4<sup>2</sup> =16</h1>
<h5> 5<sup>2</sup> =25</h1>
<h5> 6<sup>2</sup> =36</h1>
<h5> 7<sup>2</sup> =49</h1>
<h5> 8<sup>2</sup> =64</h1>
<h5> 9<sup>2</sup> =81</h1>
<h5> 10<sup>2</sup> =100</h1>
<h5> 11<sup>2</sup> =121</h1>
<h5> 12<sup>2</sup> =144</h1>
<h5> 13<sup>2</sup> =169</h1>
<h5> 14<sup>2</sup> =196</h1>
<h5> 15<sup>2</sup> =225</h1>
<h5> 16<sup>2</sup> =256</h1>
<h5> 17<sup>2</sup> =289</h1>
<h5> 18<sup>2</sup> =324</h1>
<h5> 19<sup>2</sup> =361</h1>
<h5> 20<sup>2</sup> =400</h1>

<h1>unalphabetized</h1>
```


Ishaan ₁₀

Balu ₃

Eleven ₆

Atul ₂

Griffin ₈

Ferzinski ₇

Akku ₁

Daniel ₅

Christopher ₄

<h1>alphabetized</h1>

Akku ₁

Atul ₂

Balu ₃

Christopher ₄

Daniel ₅

Eleven ₆

Ferzinski ₇

Griffin ₈

```
</li><br>
<li>
    Herzinski <sub>9</sub>
</li><br>
<li>
    Ishaan <sub>10</sub>
</li><br>
</ol>

<h1>Ordered List</h1>

<ol>
<li>Ansh</li>
<li>Saksham</li>
<li>Ayaan</li>
<li>Akshit</li>
<li>Pragyna</li>
</ol>

<h1>Unordered List</h1>

<ul>
<li>Goel</li>
<li>Kuhan</li>
<li>Zafar</li>
<li>Jain></li>
<li>Panda</li>
</ul>

<ol type="I">
<li>3</li>
<li>4</li>
<li>5</li>
```

```
</ol>
```

```
<h1>The language of web</h1>
```

```
<hr style = "width:100%">
```

```
<p>HTML is the standard markup language for creating Web pages. HTML describes the structure of a Web page, and consists of a series of elements. HTML elements tell the browser how to display the content.</p>
```

```
<h3>
```

```
 <dl>
```

```
   <dt>HTML</dt>
```

```
   <dd>is a markup language</dd>
```

```
   <dt>Java</dt>
```

```
   <dd>is a programming language and platform</dd>
```

```
   <dt>JavaScript</dt>
```

```
   <dd>is a scripting language</dd>
```

```
   <dt>SQL</dt>
```

```
   <dd>is a query language</dd>
```

```
   <dt>PhP</dt>
```

```
   <dd>is a server scripting language</dd>
```

```
 </dl>
```

```
</h3>
```

```
<h3>Bottle</h3>
```

```
<br><br>
```

```
<h3>Haunted House</h3>
```

```
<br><br>
```

```
<h3>Heaven</h3>
```

```
<br><br>
```

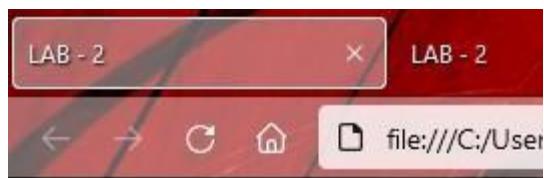
```
<h3>Engineering</h3>
<br><br>
<h3>Magical Library</h3>
<br><br>

<h3>Tree</h3>
<br>

<h3>Tree</h3>
<br>

</body>
</html>
```

OUTPUT:



$$1^2 = 1$$

$$2^2 = 4$$

$$3^2 = 9$$

$$4^2 = 16$$

$$5^2 = 25$$

$$6^2 = 36$$

$$7^2 = 49$$

$$8^2 = 64$$

$$9^2 = 81$$

$$10^2 = 100$$

$$11^2 = 121$$

$$12^2 = 144$$

$$13^2 = 169$$

$$14^2 = 196$$

$$15^2 = 225$$

$$16^2 = 256$$

$$16^2 = 256$$

$$17^2 = 289$$

$$18^2 = 324$$

$$19^2 = 361$$

$$20^2 = 400$$

unalphabetized

Ishaan 10

Balu 3

Eleven 6

Atul 2

Griffin 8

Ferzinski 7

Herzinski 9

Akku 1

Daniel 5

alphabetized

1. Akku 1
2. Atul 2
3. Balu 3
4. Christopher 4
5. Daniel 5
6. Eleven 6
7. Ferzinski 7
8. Griffin 8
9. Herzinksi 9
10. Ishaan 10

Ordered List

1. Ansh
2. Saksham
3. Ayaan
4. Akshit
5. Pragyna

Unordered List

Unordered List

Goel

Kuhan

Zafar

Jain>

Panda

I. 3

II. 4

III. 5

The language of web

HTML is the standard markup language for creating Web pages. HTML describes the structure of a Web page, and consists of a series of elements. HTML elements tell the browser how to display the content.

HTML

is a markup language

Java

is a programming language and platform

JavaScript

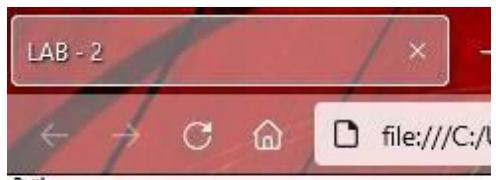
is a scripting language

SQL

is a query language

PhP

is a server scripting language



Haunted House



Heaven



Engineering



Magical Library



Tree



Tree



NAME – ANSH GOEL

REGISTER NO. – 20BCE1798

COURSE NAME – INTERNET AND WEB PROGRAMMING

COURSE CODE – CSE3002

LAB – 3

CREATING A WEBSITE

Develop a Website using HTML. The Website should contain

*CSS

*Tables

*Forms

*Menu / Buttons

*Navigation to Pages

*Our National Flag

The application of the website is of your choice.

AIM: TO CREATE A WEBSITE USING HTML AND CSS

PROCEDURE – I HAVE USED HTML AND CSS TO MAKE THIS WEBSITE.

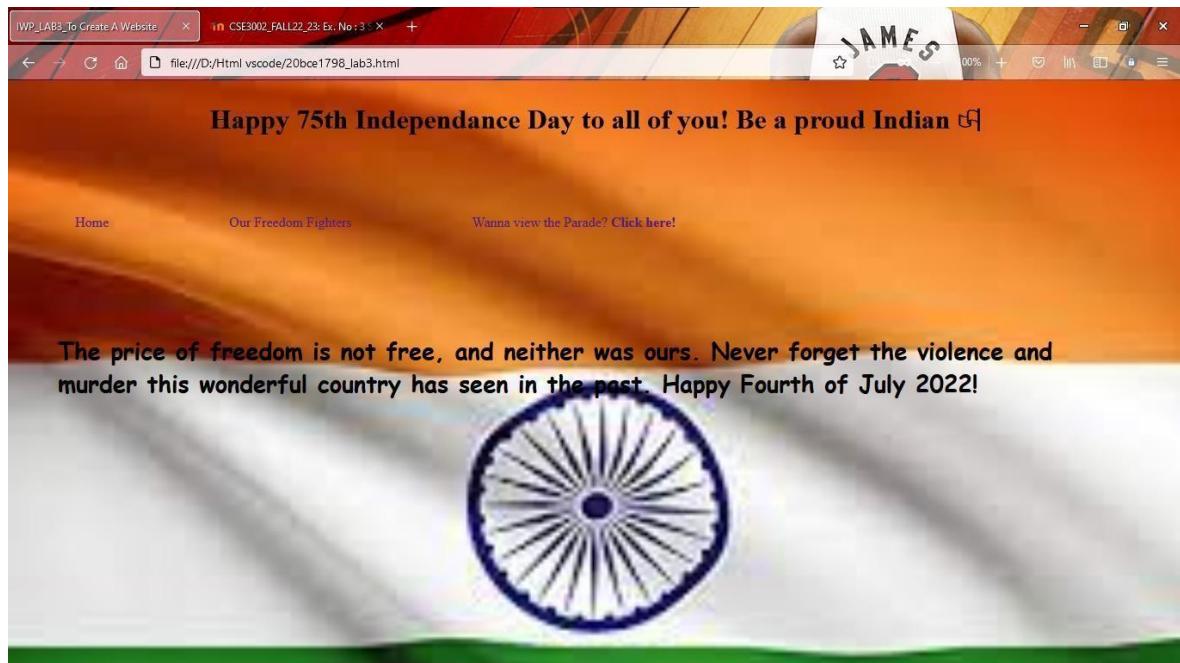
THE HOME PAGE:

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>IWP_LAB3_To Create A Website</title>
    <style>
        body{
            background-image: url("flag.png");
            background-repeat: no-repeat;
            background-size: cover;
        }
        dl{
            text-decoration: none;
            margin: 50px;
            text-align: center;
            padding: 20px;
            color: white;
        }
        a{
            text-decoration: none;
        }
        nav{
            display: flex;
            flex-direction: row;
            text-align: center;
        }
        #quote{
            margin: 50px;
            font-family: cursive;
            font-size: large;
            font-family: cursive;
        }
    </style>
</head>
<body>
    <header style="text-align: center;"><h1>Happy 75th Independance Day to all of you! Be a proud Indian ☰</h1></header>
    <nav id="navbar">
        <dl class="navbar"><a href = "#">Home</a></dl>
        <dl class="navbar"><a href = "about.html">Our Freedom Fighters</a></dl>
```

```
<dl class="navbar"><a href = "form.html">Wanna view the Parade?  
<b>Click here!</b></a></dl>  
</nav>  
<div id="quote">  
<p><h2>The price of freedom is not free, and neither was ours.  
Never forget the violence and murder this wonderful country has  
seen in the past. Happy Fourth of July 2022!</h2></p>  
</div>  
</body>  
</html>
```

OUTPUT:



THE ABOUT PAGE:

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>About</title>
    <style>
        body{
            background-image: url("flag.png");
            background-repeat: no-repeat;
            background-size: cover;
        }
        nav{
            display: flex;
            flex-direction: row;
            text-align: center;
        }
        dl{
            text-decoration: none;
            margin: 39px;
            text-align: center;
            padding: 17px;
            color: blue;
        }
        th,tr{
            padding: 20px;
            margin: 50px;
            font-family: cursive;
            font-size: large;
            font-family: cursive;
        }
    </style>
</head>
<body>
    <header style="text-align: center;"><h1><u>Information about our Mighty  
FREEDOM FIGHTERS</u></h1></header>

    <nav id="navbar">
        <dl class="navbar"><a href = "20bce1798_lab3.html">Home</a></dl>
        <dl class="navbar"><a href = "about.html">Our Freedom  
Fighters</a></dl>
        <dl class="navbar"><a href = "form.html">Wanna view the Parade?  

```

```
<table class="tabb" style="margin: 20px;">
    <tr>
        <th>NAME</th>
        <th>DATE OF BIRTH</th>
    </tr>
    <tr>
        <td>SHRI BHAGAT SINGH </td>
        <td>August 28, 1907</td>
    </tr>
    <tr>
        <td>SHRI SUBHASH CHANDRA BOSE</td>
        <td>January 23, 1897</td>
    </tr>
    <tr>
        <td>SHRI LAL BAHADUR SHASTRI</td>
        <td> 2 October 1904</td>
    </tr>
    <tr>
        <td>SHRI MAHATMA GANDHI</td>
        <td>2 October 1869</td>
    </tr>
    <tr>
        <td>SHRI SARDAR VALLABHBHAI PATEL</td>
        <td>31 October 1875</td>
    </tr>
    <tr>
        <td>SHRI RANI LAXMIBAI</td>
        <td>19 November 1828</td>
    </tr>
</table>
</body>
</html>
```

OUTPUT:

The screenshot shows a web browser window with the title bar "CSE3002_FALL22_23: Ex. No : 3" and the address bar "file:///D:/Html vscode/about.html". The main content is titled "Information about our Mighty FREEDOM FIGHTERS". Below the title, there are three navigation links: "Home", "Our Freedom Fighters", and "Wanna view the Parade? Click here!". A table lists the names and dates of birth of six freedom fighters. The background of the page is a large, waving Indian flag.

| NAME | DATE OF BIRTH |
|-------------------------------|------------------|
| SHRI BHAGAT SINGH | August 28, 1907 |
| SHRI SUBHASH CHANDRA BOSE | January 23, 1897 |
| SHRI LAL BAHADUR SHASTRI | 2 October 1904 |
| SHRI MAHATMA GANDHI | 2 October 1869 |
| SHRI SARDAR VALLABHBHAI PATEL | 31 October 1875 |
| SHRI RANI LAXMIBAI | 19 November 1828 |

THE FORM PAGE:

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Form for parade</title>
    <style>
        body{
            background-image: url("flag.png");
            background-repeat: no-repeat;
            background-size: cover;
        }
        nav{
            display: flex;
            flex-direction: row;
            text-align: center;
        }
        dl{
            text-decoration: none;
            margin: 39px;
            text-align: center;
            padding: 17px;
            color: orangered;
        }
    </style>
</head>
<body>
    <header style="text-align: center;"><h1>See ya at the
PARADE!</h1></header>
    <nav id="navbar">
        <dl class="navbar"><a href = "20bce1798_lab3.html">Home</a></dl>
        <dl class="navbar"><a href = "about.html">Our Freedom
Fighters</a></dl>
        <dl class="navbar"><a href = "form.html">Wanna view the Parade?
<b>Click here!</b></a></dl>
    </nav>
    <form>
        Name: <input type="text" class="det" placeholder="Enter your
name"><br><br><hr>
        Age: <input type="number" class="det" placeholder="Enter your
Age"><br><br><hr>
        Phone: <input type="number" class="det" placeholder="Enter your
contact number"><br><br><hr>
```

```

<label><b>City :</b> </label>
<select name="city">
    <option value="" disabled selected hidden>Choose your
City</option>
    <option value="">Ghaziabad</option>
    <option value="">Delhi</option>
    <option value="">Gurugram</option>
</select><hr>
<br><br><button class="btn"
type="submit">Submit</button>
                <button type="reset">Reset</button>

            </form>
</body>
</html>

```

OUTPUT:

The screenshot shows a web browser window with the title "Form for parade". The address bar displays "file:///D:/Html vscode/form.html". The page content features a large background image of the Indian flag. At the top center, the text "See ya at the PARADE!" is written in a bold, dark font. Below this, there is a navigation bar with links to "Home", "Our Freedom Fighters", and a link to "Wanna view the Parade? Click here!". The main form area contains the following input fields:

- Name: ANSH GOEL
- Age: 18
- Phone: 9667847401
- City: Ghaziabad

At the bottom left of the form area, there are "Submit" and "Reset" buttons.

RESULT – HURRAH! WEBSITE HAS BEEN SUCCESSFULLY MADE.

Name: Ansh Goel

Registration No.: 20BCE1798

Course Name: Internet and Web Programming

Course Code: CSE3002

Date: 22/08/2022

Lab 4- Basic JS exercises

1. Write a JavaScript program to calculate multiplication and division of two numbers. Get inputs from user.

1st number -----

2nd number -----

Multiply Divide

2. Write a JavaScript program that accept two integers and display the larger
3. Write a JavaScript conditional statement to find the sign of product of three numbers. Display an alert box with the specified sign. Sample numbers : 3, -7, 2
4. Write a JavaScript function to check whether an 'input' is an array or not.
5. Write a simple JavaScript program to join all elements of the following array into a string.
6. Write a JavaScript program to sort the items of an array.
7. Write a JavaScript for loop that will iterate from 0 to 15. For each iteration, it will check if the current number is odd or even, and display a message to the screen.
8. Write a JavaScript conditional statement to find the largest of five numbers. Display an alert box to show the result.
9. Write a JS code to print numbers from 1 to 10
10. Write a JS code to print Even numbers in given array

Aim – To understand JS by this assignment

Procedure – Analyse the question thoughtfully and then start coding JS.

CODE:

HTML FILE:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<title>20BCE1798_LAB4</title>
<script type="text/javascript" src="lab4_script.js"></script>
</head>
<h2>Question 1</h2>
<br/>
<form>
1st Number : <input type="text" id="firstNumber" /><br/>
<br/>
```

```

2nd Number: <input type="text" id="secondNumber" /><br/>
<br/>
<input type="button" onClick="multiplyBy()" Value="Multiply" />
<input type="button" onClick="divideBy()" Value="Divide" />
</form>
<p>The Result is : <br>
<span id = "result"></span>
</p>
<h2>Question 2</h2>

<input type="number" placeholder="Number One" id="Num1"><br><br>
<input type="number" placeholder="Number Two" id="Num2"><br><br>
<button type="submit" onclick="larger()">Larger Number</button>
<br><br>
<span id="resQ2"></span>

<h2>Question 3</h2>
1st Number: <input type="number" id="num1"><br><br> 2nd Number: <input
type="number" id="num2"><br><br> 3rd Number: <input type="number"
id="num3"><br><br>
<button type="submit" onclick="sign()">Display sign of the product</button>

<h2>Question 4</h2>
<button type="submit" onclick="arr()">Is it an array?</button>
<br><br>
<span id="resQ4"></span>
<br><br>
<span id="resq4"></span>

<h2>Question 5</h2>
<button type="submit" onclick="str()">Array to string</button>
<br><br>
<span id="result5"></span>

<h2>Question 6</h2>
<button type="submit" onclick="sort()">Sort items of array</button>
<br><br>
<span id="res6"></span>
<br><br>
<span id="result6"></span>

<h2>Question 7</h2>
<button type="submit" onclick="loop()">Odd or even?</button>
<br><br>
<span id="result7"></span>

<h2>Question 8</h2>
<!-- <form>

```

```

1st Number : <input type="text" id="firstNumber" /><br/>
<br/>
2nd Number: <input type="text" id="secondNumber" /><br/>
<br/>
3rd Number: <input type="text" id="thirdNumber" /><br/>
<br/>
4th Number: <input type="text" id="fourthNumber" /><br/>
<br/>
5th Number: <input type="text" id="fifthNumber" /><br/>
<br/>
</form>
<button type="submit" onclick="largest()">Largest of 5</button>
<br><br>
<p>The Result is : <br>
<span id = "result8"></span>
</p> -->

<button type="submit" onclick="largest()">Largest of 5 numbers</button>
<br><br>
<span id="result8"></span>

<h2>Question 9</h2>
<button type="submit" onclick="ten()">Print numbers from 1 to 10</button>
<br><br>
<span id="result9"></span>

<h2>Question 10</h2>
<button type="submit" onclick="even()">Print even numbers in
[1,2,3,4,5,6]</button>
<br><br>

```

JS FILE:

```

function multiplyBy() {
    number1 = document.getElementById("firstNumber").value; number2 =
document.getElementById("secondNumber").value;
    document.getElementById("result").innerHTML = number1 * number2;
}
function divideBy() {
    number1 = document.getElementById("firstNumber").value; number2 =
document.getElementById("secondNumber").value;
    document.getElementById("result").innerHTML = number1 / number2;
}

```

```

function larger(){ num1=document.getElementById("Num1").value;
num2=document.getElementById("Num2").value; if(num1>num2)
    document.getElementById("resQ2").innerHTML="Larger is "+num1; else
    document.getElementById("resQ2").innerHTML="Larger is "+num2;
}
function sign() {
    num1 = document.getElementById("num1").value; num2 =
document.getElementById("num2").value; num3 =
document.getElementById("num3").value; val = num1 * num2 * num3;
    if (val < 0) alert("Negative"); else alert("Positive");
}
/*function arr() {
    var is_array = function(input) {
        if (toString.call(input) === "[object Array]")
            return true;
        return false;
    };
    document.getElementById("resQ4").innerHTML="Array input: w3resources
<br>"+(is_array('w3resource'));
    document.getElementById("resq4").innerHTML="Array input: [1, 2, 4, 0]
<br>"+(is_array([1, 2, 4, 0]));
}
*/
function str(){
fruit = ["apple", "orange", "banana", "watermelon"];
document.getElementById("result5").innerHTML=(fruit.toString());
document.getElementById("result5").innerHTML=(fruit.join());
document.getElementById("result5").innerHTML=(fruit.join(' '));
}
function sort(){
    var arr = [2, 5, 8, 1, 4];
document.getElementById("res6").innerHTML=(arr);
document.getElementById("result6").innerHTML=(arr.sort());
}
function loop(){ var i=0; for(i=0;i<16;i++){
    if(i%2==0){
        document.getElementById("result7").innerHTML+=i+" is even.<br>";
    }
    else{
        document.getElementById("result7").innerHTML+=i+" is odd.<br>";
    }
}
}

function largest(){
    var arr = [2, 5, 8, 1, 4]; var i=0;
    var max=0; for(i=0;i<5;i++){ if(arr[i]>max) max=arr[i];
}
}

```

```
document.getElementById("result8").innerHTML=(arr); alert("Largest number  
is "+max);  
  
}  
  
function ten(){ for(i=1;i<=10;i++){  
document.getElementById("result9").innerHTML+=i+" ";  
  
}  
}  
function even(){  
var arr = [1,2,3,4,5,6];  
var i=0; for(i=0;i<6;i++){  
if(arr[i]%2==0){  
document.getElementById("result10").innerHTML+=arr[i]+" ";  
}  
}  
}
```

OUTPUT:



Question 1

1st Number :

2nd Number:

The Result is :

780

Question 2

Larger is 67

Question 3

1st Number:

2nd Number:

3rd Number:



Question 5

appleorangebananawatermelon

Question 6

2,5,8,1,4

1,2,4,5,8

Question 7

0 is even.

1 is odd.

2 is even.

3 is odd.

4 is even.

5 is odd.

6 is even.

7 is odd.

8 is even.

9 is odd.

10 is even.

11 is odd.

12 is even.

13 is odd.

14 is even.

0 is even.
1 is odd.
2 is even.
3 is odd.
4 is even.
5 is odd.
6 is even.
7 is odd.
8 is even.
9 is odd.
10 is even.
11 is odd.
12 is even.
13 is odd.
14 is even.
15 is odd.

Question 8

Largest of 5 numbers

2,5,8,1,4

Question 9

Print numbers from 1 to 10

1 2 3 4 5 6 7 8 9 10

Question 10

Print even numbers in [1,2,3,4,5,6]

file:///
Largest number is 8
OK

RESULT – THUS WE SUCCESSFULLY UNDERSTOOD THE BASICS OF JS.

Name: Ansh Goel

Registration No.: 20BCE1798

Course Name: Internet and Web Programming

Course Code: CSE3002

Date: 22/08/2022

Lab 5 - Basic JS exercises -2

Aim – To understand JS by this assignment

Procedure – Analyze the question thoughtfully and then start coding JS.

Questions:

1. Make a simple web page that contains an h2 with the word “Hello” a text input box, and a button. When the user types a word or phrase into the input box and presses the button, replace the old h2 with the word entered. Using animation, make the word spin.
2. Make a simple web page that contains a button and a paragraph with the id of count Whenever this button is pressed increment the count by 1 and update the paragraph text. Also update the font size so that as the number gets larger, so does the font.
3. Create an html page with two text input boxes and four buttons. The buttons should be labeled +, -, *, and /. When one of these buttons is pressed you should get the *value* from both text input boxes and add, subtract, multiply, or divide the numbers entered in the text input boxes. The result should be displayed below the buttons. **Note** In order to do math on the values you read from the text input boxes you will need to use Number.parseInt on the value. for example suppose you get a reference to input box 1 using myIn1 = document.querySelector("#in1id"); then the statement value1 = Number.parseInt(myIn1.value) converts the string from the text input box to an integer. In fact most of the time Javascript will do the conversion for you automatically except for addition.
4. Create a page that looks like the following image: The rest of the page must be created using javascript. You must use document.createElement and the appendChild functions.

The screenshot shows a web page with a light blue header bar containing a "Click Here" button. Below the header, the text "I am an H1" is displayed in a large, bold, black font. Underneath it, the text "This is a paragraph followed by a list" is shown in a smaller, regular black font. A bulleted list follows, with items I. This is first and II. This is second.

5. Write a JS code to count all letters in a word

Code:

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Document</title>
    <script src="scriptt.js"></script>
    <link rel="stylesheet" href="styles.css">
</head>
<body>

    <h2>Question 1</h2>

    <h2 id="chn">Hello</h2>

    New word: <input type="text" id="inp"/> <br/>
    <br/>
    <button type="submit" onClick="change()">Submit</button>

    <h2>Question 2</h2>
    <p id="1"></p>
    <button type="submit" onClick="magic()">Do the magic!</button>

    <h2>Question 3</h2>
```

```

<input type="text" name="" id="inp1" placeholder="Enter first number : ">
    <br><br>
    <input type="text" name="" id="inp2" placeholder="Enter second number : ">
    <br><br>
    <button id="btn1" onclick="operate(this.id)">Addition "+"</button>
    <button id="btn2" onclick="operate(this.id)">Subtraction "- "</button>
    <button id="btn3" onclick="operate(this.id)">Multiplication "*"</button>
    <button id="btn4" onclick="operate(this.id)">Division "/"</button>
    <br><br>
    <span id="wr"></span>

<h2>Question 4</h2>
<div class="q4"></div>
<button type="submit" onClick="addElement()">Submit</button>

    <h2>Question 5</h2>
    <button type="submit" onClick="count()">Count letters in the word</button>
    <br />
    The number of letters in Hello are <span id="result"></span>

</body>

</html>

```

Styles.css

```

#chn:hover{
    transition: 5s;
    transform: rotateY(360deg);
    transform: rotateX(360deg);
}

```

Scriptt.js

```

function change(){
    input=document.getElementById("inp").value;
    ch=document.getElementById("chn").value;
    // cn=document.getElementById("chn").value;
}

```

```

        document.getElementById("chn").innerHTML = input;
        // document.getElementById("chn").classList.add("rotate");
    }
    function isLetter(char){
        return ( (char >= 'A' && char <= 'Z') ||
                (char >= 'a' && char <= 'z') );
    }

    function addElement () {
        const btn = document.createElement("button");
        btn.innerHTML = "Click here";
        btn.addEventListener("click",q4=(e)=>{
            console.log("hi")
        })
        // btn.setAttribute("onclick")
        document.body.appendChild(btn);
        document.write("<br><br>");
        const hd = document.createElement("h1");
        hd.innerHTML = "I am an H1";
        document.body.appendChild(hd);
        const para = document.createElement("p");
        para.innerHTML = "This is a paragraph followed by a list";
        document.body.appendChild(para);
        var list = document.createElement("ol");
        list.setAttribute("id","mylist");
        document.body.appendChild(list)
        list.type = "i";
        var l1=document.createElement("li");
        const node1 = document.createTextNode("This is first");
        l1.appendChild(node1);
        document.getElementById("mylist").appendChild(l1);

        var l2=document.createElement("li");
        const node2 = document.createTextNode("This is second");
        l2.appendChild(node2);
        document.getElementById("mylist").appendChild(l2);
    }

    function count(){
        var letter_Count = 0;
        str="Hello";
        for (var position = 0; position < str.length; position++)
        {
            if (isLetter(str.charAt(position)))
            {
                letter_Count += 1;
            }
        }
        return letter_Count;
    }
}

```

```

        }
    }
    document.getElementById("result").innerHTML=letter_Count;
    console.log(letter_Count);
}
var counter=0;
var fnt=10;
function magic(){
    counter++;
    document.getElementById("1").innerHTML="The counter is "+counter+
times.";
    fnt++;
    document.getElementById("1").style.fontSize=(fnt+1)+"px";
}

function operate(clicked_id){
    var first =
Number.parseInt(document.getElementById("inp1").value);
    var second =
Number.parseInt(document.getElementById("inp2").value);
    switch(clicked_id){
        case "btn1":
            var add = first + second;
            var wr = document.getElementById("wr");
            wr.innerHTML = "The result of addition is: "+add;
            break;
        case "btn2":
            var sub = first - second;
            var wr = document.getElementById("wr");
            wr.innerHTML = "The result of subtraction is:
"+sub;
            break;
        case "btn3":
            var mul = first * second;
            var wr = document.getElementById("wr");
            wr.innerHTML = "The result of multiplication is:
"+mul;
            break;
        case "btn4":
            var div = first / second;
            var wr = document.getElementById("wr");
            wr.innerHTML = "The result of division is: "+div;
            break;
        default:

```

```
        console.log("Invalid Operation");
    }
}
```

Output:

Question 1

Hello

New word:

word change:

Question 1

hi

New word:

Spin animation:



Question 2

The counter is 2 times.

Question 2

The counter is 18 times.

Question 3

[Addition "+"](#) [Subtraction "-"](#) [Multiplication "*"](#) [Division "/"](#)

The result of addition is: 5

Question 3

[Addition "+"](#) [Subtraction "-"](#) [Multiplication "*"](#) [Division "/"](#)

The result of subtraction is: -1

Question 3

[Addition "+"](#) [Subtraction "-"](#) [Multiplication "*"](#) [Division "/"](#)

The result of multiplication is: 6

Question 3

[Addition "+"](#) [Subtraction "-"](#) [Multiplication "*"](#) [Division "/"](#)

The result of division is: 0.6666666666666666

Question 4

I am an H1

This is a paragraph followed by a list

- i. This is first
- ii. This is second

Question 5

Count letters in the word
The number of letters in Hello are 5

Result:

All the questions were solved by writing codes and the outputs were verified.

NAME – ANSH GOEL

REGISTER NO. – 20BCE1798

COURSE NAME – INTERNET AND WEB PROGRAMMING

COURSE CODE – CSE3002

LAB – 6

JS-EXERCISE

AIM: To use JavaScript to solve the questions given below.

1. A General Service company hired you to calculate the labour cost and total charge for the services rendered to their client based on the formula given below:

Rate per hour : Rs.45/-

Labour cost : Rate per hour * hours work

Total Charge : Labour cost + Cost of Materials.

Write a JavaScript program (Internal) using suitable pop up boxes to read the necessary inputs and display the output.

2. Write a JavaScript program that reads a value from the user and displays the prime numbers between 1 and the value provided by the user. The values should be printed in an HTML table.
3. Write a JavaScript program to accept your reg.no and display it as shown below by applying inline style (2 marks)

one

4. A circus has an entry ticket booth. Visitors come to the booth, and order tickets for adults and children. The booth attendant collects the entry fee, and prints out the tickets. Write a JavaScript program (External) to display the total amount in a given text box on clicking ‘Total’ button.

TICKET BOOTH

Adults (₹10 each)

Children (₹5 each)

Total

Procedure:

1. Learn the concepts
2. Code it
3. Check the output
4. Verify it

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Lab-6_ANSH-GOEL_20BCE1798</title>
</head>
<body>
    <div>
        <h2>Ques 1</h2>
        <button type="submit" onclick="q1()">Run Q1</button>
        <span id="res1"></span>
    </div>
    <div>
        <h2>Ques 2</h2>
        <input type="number" id="q2in">
        <button type="submit" onclick="q2()">Run Q2</button>

        <table id="myTable" style="border:2px"></table><br><br>
        <span id="res2"></span></div>
    <div>
        <h2>Ques 3</h2>
        <input type="string" id="q3in">
        <button type="submit" onclick="q3()">Run Q3</button>
        <div id="res3"></div>
    </div>
    <div>
        <h2>Ques 4</h2>
        <label>Adults (Rs 10 each)<br></label>
        <input type="number" id="q4in1"><br><br>
        <label>Children (Rs 5 each)<br></label>
        <input type="number" id="q4in2"><br><br><br>
        <button type="submit" onclick="q4()">Total</button><input
        type="string" id="res4">
    </div>
</body>
<script>
    function q1(){
        hr=parseInt(prompt('Enter hours worked:'));
    }
</script>
```

```

c=parseInt(prompt('Enter cost of materials:'));
rph=45
lc=rph*hr;
alert('Total charge :'+(lc+c));
document.getElementById('res1').innerHTML+='brTotal charge'+tc;
}

function q2(){
n=document.getElementById('q2in').value;
var x = document.getElementById("myTable");

for(let i=2;i<=n;i++){
if(isPrime(i)){
    var row=x.insertRow(0);
    var cell1=row.insertCell(0);
    cell1.style.border="black solid 2px";
    cell1.innerHTML=i;
}
}
document.getElementById("res2").appendChild(x);
}

function isPrime(num){
let isPrime=true;
for(let i=2;i<num;i++){
    if(num%i==0){
        isPrime=false;
    }
}
return isPrime;
}

function q3(){
l=document.getElementById('q3in').value;
document.getElementById('res3').innerHTML+='br'+l;
document.getElementById('res3').style.padding="10px";
document.getElementById('res3').style.border = "red solid 5px";
document.getElementById('res3').style.marginRight='400px';
}

function q4(){
a=document.getElementById('q4in1').value;
b=document.getElementById('q4in2').value;
c=(a*10)+(b*5);
document.getElementById('res4').value=c;
}

</script>
</html>

```

OUTPUT:

The image shows three separate dialog boxes, each with a dark gray header and footer and a light gray body. Each dialog box contains a URL indicator (file://), a text input field with a blue border, a checkbox, and two buttons (OK and Cancel). The first dialog box asks for 'Enter hours worked:' with the value '70'. The second dialog box asks for 'Enter cost of materials:' with the value '3000'. The third dialog box displays the total charge as 'Total charge :6150' and includes a checkbox for 'Don't allow this site to prompt you again'.

file://

Enter hours worked:

70

Prevent this page from creating additional dialogs

OK Cancel

file://

Enter cost of materials:

3000

Prevent this page from creating additional dialogs

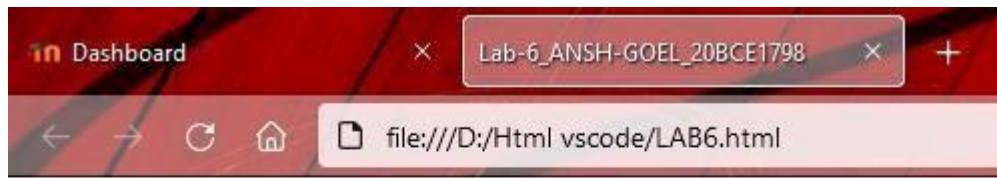
OK Cancel

file://

Total charge :6150

Don't allow this site to prompt you again

OK



Ques 1

Ques 2

20

- 19
- 17
- 13
- 11
- 7
- 5
- 3
- 2

20BCE1798

20BCE1798

Ques 4

Adults (Rs 10 each)

30

Children (Rs 5 each)

25

Total

NAME – ANSH GOEL

REGISTER NO. – 20BCE1798

COURSE NAME – INTERNET AND WEB PROGRAMMING

COURSE CODE – CSE3002

LAB – 7

DOM, AJAX AND JQUERY

NAME: ANSH GOEL

REG NO.: 20BCE1798

1. Java Script DOM

Design an e-news paper using DOM with following feature: - Add buttons to change the headlines, content and author with respect to the date. - Customize the advertisements page based on the requirement.

SOL

HTML along with Javascript:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initialscale=1.0">
<link rel="stylesheet" href="./style.css">
<title>AtoZ NewsPaper</title>
</head>
<body>
<div class="header">
<button class="btn-back"> Back
</button>
<h1>AtoZ News Paper</h1>
<button class="btn-next"> Next
</button>
</div>
<hr>
<div class="author author1">
Taurad 20-09-2021 by person 1 </div>
<div class="author author2">
Taurad-2 20-09-2021 by person 2 </div>
```

```
<hr>
<div class="content1">
<div class="news-container left">
<h2 class="news-header">This is the Headline 1</h2>
<div class="news-content">
Theresa, 25, a cashier at Key Food in Brooklyn, was excited when she received a raise a few months ago.

"But I've barely noticed it, because everything is getting more expensive," says Theresa, who requested that we only use her first name. "Groceries, bills, you name it. My paycheck just disappears. It's depressing because I don't know when I'll get another raise."
<br>
While recent pay hikes are certainly a positive development that will benefit millions of workers, they are not close to making up for years of wage stagnation. "There's a long way to go," says Brookings Institution economist Gary Burtless, pointing to the lack of relative growth of low and middle income wages over the last four decades.
<br>

<br>
The situation is the same in the hospitality industry, in which some hotel maids and housekeepers in Los Angeles will soon earn $25 an hour, but it hardly covers the cost of living increases they experience, says Lorena Lopez, an organizing director at UNITE HERE Local 11, the union that represents hotel and restaurant workers.
</div>
<div class="news-container right">
<h2 class="news-header">This is Heading 2</h2>
<div class="news-content">
This is the news related to heading 2
<br>
Toyota adds Renovo Motors to its Woven Planet R&D group
<br>
Alternatives,Technology,Emerging Technologies,Autonomous,Future\n\nContinue reading
Toyota adds Renovo Motors to its Woven Planet R&D group\n\nToyota adds Renovo Motors to its Woven Planet R&D group originally appeared
<br>
Japanese automaker Toyota is revving up acquisitions in mobility technology, adding Renovo Motors Inc., a Silicon Valley software developer, to its Woven Planet team, which is working on automated driving.\nThe addition, announced Tuesday, follows...", 
<br>
</div>

</div>
</div>
```

```
<div class="content2">
<div class="news-container left">
<h2 class="news-header">Covid virus expected to continue to transmit for a very long
time: WHO</h2>
```

```
<div class="news-content">
```

Scientists have developed a three-dimensional (3D) printed vaccine patch that provides greater protection than a typical immunisation shot. The team at Stanford University and the University of North Carolina at Chapel Hill (UNC) in the U.S. applied the vaccine patch directly to the skin of animals, which is full of immune cells that vaccines target.

```
<br>
```

The number of fresh coronavirus cases was recorded at below 20,000 in India after 201 days on Tuesday, taking the country's COVID-19 tally to 3,36,97,581, while the number of active cases declined to 2,92,206, the lowest in 192 days, according to the Union Health Ministry.

```
<br>
```

Many States and Union Territories have organised mass vaccination camps across the country to reach target vaccinations, and to pre-empt the emergence of the third wave of COVID-19.

```
<br>
```

Stressing that the Covid virus may continue to transmit for a "very long time", senior WHO official Poonam Khetrapal Singh says the level of immunity in a community, through vaccination and previous infection, will determine whether it will become endemic in the long run.

```
<br>
```

India's drug regulator on Tuesday allowed vaccine manufacturer Serum Institute to enroll children between seven and 11 years of age for its COVID-19 vaccine trial. - Reuters

```
</div>
```

```
</div>
```

```
<div class="news-container right">
```

<h2 class="news-header">Election Commission announces bypolls to three Lok Sabha, 30 Assembly seats</h2>

```
<div class="news-content">
```

The Election Commission (EC) on Tuesday announced byelections to three Lok Sabha constituencies – Dadra & Nagar Haveli, Khandwa and Mandi – and 30 Assembly seats across the country to be held on October 30.

"The Commission has reviewed the situations related to pandemic, flood, festivals, cold conditions in certain regions, feedback from concerned States/UT and taken into consideration all facts and circumstances and it has decided to hold bye-elections to fill vacancies in three Parliamentary Constituencies of UT of Dadra & Nagar Haveli and Daman & Diu, Madhya Pradesh and Himachal Pradesh and 30 vacancies in Assembly Constituencies of various

States," the EC said.

```
<br>
```

The Assembly seats going to bypolls were one each from Andhra Pradesh, Haryana, Maharashtra, Mizoram, Nagaland and Telangana; two seats each in Bihar, Karnataka and

Rajasthan; three seats each in Himachal Pradesh, Madhya Pradesh and Meghalaya; four seats in West Bengal; and five in Assam.

The EC reiterated its orders regarding COVID-19 safety norms, including restricting election meetings to 30% of the allowed capacity of an indoor venue or 200 people and a complete ban on roadshows and bike rallies.

```

</div>
</div>
</div>
<script>
const back = document.querySelector('.btn-back') const next =
document.querySelector('.btn-next') const content1 =
document.querySelector('.content1') const content2 =
document.querySelector('.content2') const author1 = document.querySelector('.author1')
const author2 = document.querySelector('.author2') next.addEventListener('click', () => { content1.style.display = 'none' content2.style.display = 'flex'
author1.style.display = 'none'
author2.style.display = 'block'
})
back.addEventListener('click', () => { content2.style.display = 'none'
content1.style.display = 'flex' author2.style.display = 'none' author1.style.display =
'block'
})
</script>
</body>
</html>

```

name the above HTML file as index.html

CSS File:

```

* {
  box-sizing: border-box;
}
body, html {
  font-family: 'Arial', Arial, monospace;
  font-family: 'Times New Roman', Times, serif; background-color: #fdfdfdf;

  color: #2f2f2f;
  text-align: justify;
}
img {
  width: 400; height:300; margin: 20px 0;
}
.header { width: 100%; display: flex;
justify-content: space-between; align-items: center;
}
h1 {
  font-size: 3.5rem;
}
button {
  padding: 10px 30px; font-size: 1.2rem; font-weight: 700;
}

```

```
background-color: transparent; border: 2px solid #2f2f2f;
}
button:hover { color: #f9f7f1;
background-color: #2f2f2f;
}
.author {
text-align: center;
font-family: 'Times New Roman', Times, serif; font-size: 1.2rem;
.author2 { display: none;
}
hr {
border: 1px solid #2f2f2f;
}
.content1 { display: flex;
}
.content2 { display: none;
}
.news-container { margin-top: 20px;

padding: 0 30px;
flex: 1;
}
.left {
border-right: 1px solid #2f2f2f;
}
.news-header { font-size: 2rem;
line-height: 3rem;
}
.news-content {
font-family: 'Arial', Arial, monospace; line-height: 2rem;
}
```

name the above HTML file as style.css and save it in same folder

Vellore Institute of Technology | CSE3002_FALL22_23_Ex_No 7 | Document48.docx | (121) WhatsApp | -q84882950.html | AtzZ NewsPaper

Back | Next | File | C:/Users/student/Desktop/ques1f.html

AtoZ News Paper

Taurad 20-09-2021 by person 1
Taurad-2 20-09-2021 by person 2

This is the Headline 1

Theresa, 25, a cashier at Key Food in Brooklyn, was excited when she received a raise a few months ago. "But I've barely noticed it, because everything is getting more expensive," says Theresa, who requested that we only use her first name. "Groceries, bills, you name it. My paycheck just disappears. It's depressing because I don't know when I'll get another raise."

While recent pay hikes are certainly a positive development that will benefit millions of workers, they are not close to making up for years of wage stagnation. "There's a long way to go," says Brookings Institution economist Gary Burtless, pointing to the lack of relative growth of low and middle income wages over the last four decades.

BREAKING NEWS

The situation is the same in the hospitality industry, in which some hotel maids and housekeepers in Los Angeles will soon earn \$25 an hour, but it hardly covers the cost of living increases they experience, says Lorena Lopez, an organizing director at UNITE HERE Local 11, the union that represents hotel and restaurant workers.

-q84882950 (1).html | -q55610716.html | -q55610702.html | -q84882950.html

Type here to search

This is Heading 2

This is the news related to heading 2
Toyota adds Renovo Motors to its Woven Planet R&D group
Alternatives, Technology, Emerging Technologies, Autonomous, Future II Continue reading Toyota adds Renovo Motors to its Woven Planet R&D group in Toyota adds Renovo Motors to its Woven Planet R&D group originally appeared on Japanese automaker Toyota is revving up acquisitions in mobility technology, adding Renovo Motors Inc., a Silicon Valley software developer, to its Woven Planet team, which is working on automated driving. The addition, announced Tuesday, follows... .

Covid virus expected to continue to transmit for a very long time: WHO

Scientists have developed a three-dimensional (3D) printed vaccine patch that provides greater protection than a typical immunisation shot. The team at Stanford University and the University of North Carolina at Chapel Hill (UNC) in the U.S. applied the vaccine patch directly to the skin of animals, which is full of immune cells that vaccines target. The number of fresh coronavirus cases was recorded at below 20,000 in India after 201 days on Tuesday, taking the country's COVID-19 tally to 3,36,97,581, while the number of active cases declined to 2,92,206, the lowest in 192 days, according to the Union Health Ministry. Many States and Union Territories have organised mass vaccination camps across the country to reach target vaccinations, and to pre-empt the emergence of the third wave of COVID-19. Stressing that the Covid virus may continue to transmit for a "very long time", senior WHO official Poonam Khetrapal Singh says the level of immunity in a community, through vaccination and previous infection, will determine whether it will become endemic in the long run. India's drug regulator on Tuesday allowed vaccine manufacturer Serum Institute to enrol children between seven and 11 years of age for its COVID-19 vaccine trial. - Reuters

Election Commission announces bypolls to three Lok Sabha, 30 Assembly seats

The Election Commission (EC) on Tuesday announced by-elections to three Lok Sabha constituencies — Dadra & Nagar Haveli, Khandwa and Mandi — and 30 Assembly seats across the country to be held on October 30. "The Commission has reviewed the situations related to pandemic, the socio-economic conditions and all facts and circumstances and it has decided to hold bye-elections to fill vacancies in three Parliamentary Constituencies of UT of Dadra & Nagar Haveli and Daman & Diu, Madhya Pradesh and Himachal Pradesh and 30 vacancies in Assembly Constituencies of various States," the EC said. The Assembly seats going to bypolls were one each from Andhra Pradesh, Karnataka, Maharashtra, Mizoram, Nagaland and Telengana; two seats each in Bihar, Karnataka and Rajasthan; three seats each in Himachal Pradesh, Madhya Pradesh and Meghalaya; four seats in West Bengal; and five in Assam. The EC reiterated its orders regarding COVID-19 safety norms, including restricting election meetings to 30% of the allowed capacity of an indoor venue or 200 people and a complete ban on roadshows and bike rallies.

* { box-sizing: border-box; } body, html { font-family: 'Arial', Arial, monospace; font-family: 'Times New Roman', Times, serif; background-color: #f0f0f0; color: #2E2E2E; text-align: justify; } img { width: 400px; height: 300px; margin: 20px 0; } header { width: 100%; display: flex; justify-content: space-between; align-items: center; } h1 { font-size: 3.5rem; } button { padding: 10px 30px; font-size: 1.2rem; font-weight: 700; background-color: transparent; border: 2px solid #2E2E2E; } button:hover { color: #FF7F7F; background-color: #2E2E2E; } author { text-align: center; font-family: 'Times New Roman', Times, serif; font-size: 1.2rem; author2 { display: none; } hr { border: 1px solid #2E2E2E; } content1 { display: flex; } content2 { display: none; } news-container { margin-top: 20px; padding: 0 30px; flex: 1; } left { border-right: 1px solid #2E2E2E; } news-header { font-size: 2.5rem; line-height: 3rem; } news-content { font-family: 'Arial', Arial, monospace; line-height: 2rem; }



2. AJAX

Create a program to change the content of the E-commerce web page using AJAX. Eg. Changing the prize of the product or stock availability values. Use the stylesheet in the page with some rules for classes ¶ Change the background color of the first ordered list ¶ Give all the items in that list blue font. ¶ Append the text — in the list!|| to each element in the first ordered list. ¶ Select every link that has a —name|| attribute, and change its background color ¶ to #eee. ¶ Insert a button with id —ajax-button|| and text —More!||, and then a div with id ¶ —ajax|| and inner HTML —Hello World!|| at the very top of the document.

SOL

AS per the understanding from mentioned requirements the following code is written feel free to have modifications

```
<html>
  <head>
    <style>
      /* Change the background color of the first ordered list First requirement */
      ol:first-of-type{
        background-color: gray;
      }
      color: blue; /* Give all the items in that list blue font Second requirement */
    </style>
  </head>
  <body>
```

```

}

/* Append the text “in the list!” to each element in the first ordered list Third requirement */
ol:first-of-type>li::after {

    /* add content after every list element */

    content: "in the list!";


}

/* Select every link that has a “name” attribute, and change its background color #eee
Fourth requirement */

a[name] {

    color:#eee;

}

</style>

</head>

<body>

/* Insert a button with id “ajax-button” and text “More!”, and then a div with id “ajax”
and inner HTML “Hello World!” at the very top of the document */

<button id="ajax-button" >More!</button>

<div id="ajax">Hello World!</div>

<ol>

    <li class="li-text">Apple in the list!</li>
    <li class="li-text">Banana in the list!</li>
    <li class="li-text">Coke in the list!</li>
    <li class="li-text">Delicious in the list!</li>

</ol>

<ol>

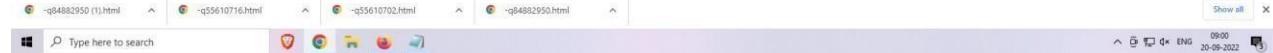
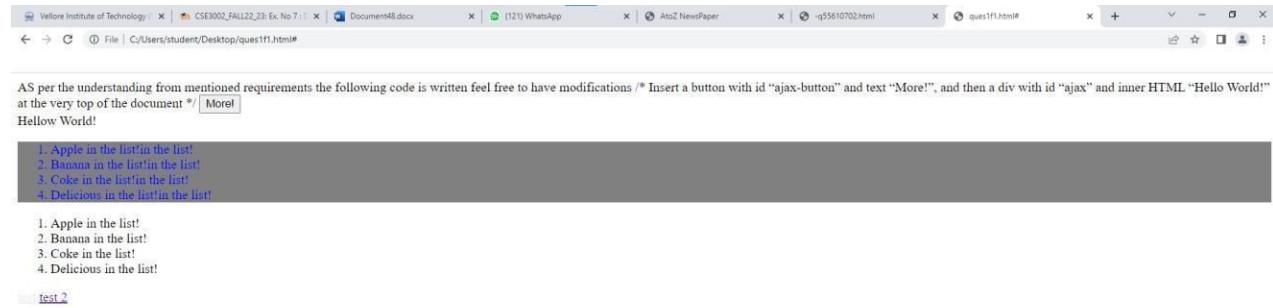
    <li class="li-text">Apple in the list!</li>
    <li class="li-text">Banana in the list!</li>
    <li class="li-text">Coke in the list!</li>

```

```

<li class="li-text">Delicious in the list!</li>
</ol>
<a name='test' href="#">test</a>
<a href="#">test 2</a>
</body>
</html>

```



JQuery

Write a JQuery program to do the following in a web page

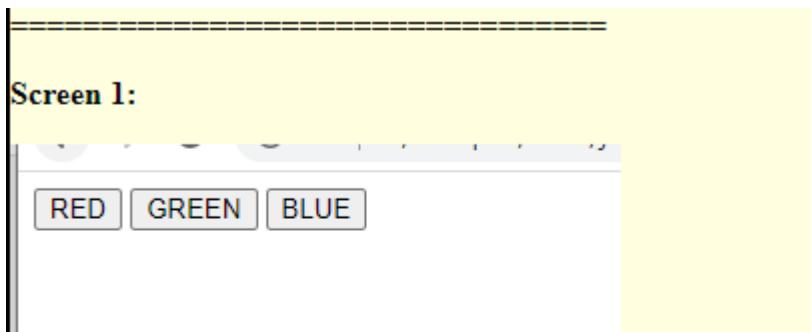
- ❑ Create three buttons with labels red, green, blue, when the mouse is moved over it the background color has to be changed respectively.
- ❑ Create a HTML page holding a list of items and an [Extract Text] button is given. Implement the extractText function which will be called when the button's onClick event is fired.
- ❑ Create a HTML page holds a list of towns, a search box and a [Search] button. Implement the search function to bold the items from the list which include the text from the search box.

SOL

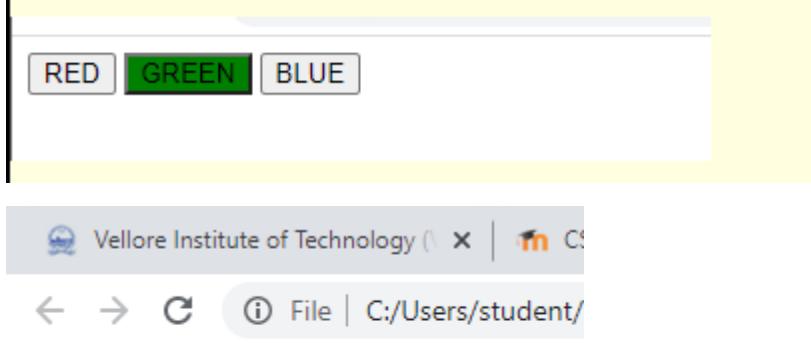
HTML file:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <!-- title for web page -->
    <title>jQuery</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <!-- jQuery from CDN -->
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
    <!-- jQuery -->
    <script>
        $(document).ready(function(){
            //This line will handle mousemove event for each button
            $("input[type='button']").mousemove(function()
            {
                //select the specified button and change background color
                $(this).css("background-color",$(this).val());
            })
        });
    </script>
</head>
<body>
```

```
<input type="button" value="RED"/>  
<input type="button" value="GREEN"/>  
<input type="button" value="BLUE"/>  
</body>  
</html>
```



Screen 2: Screen when mouse is over the specified button



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

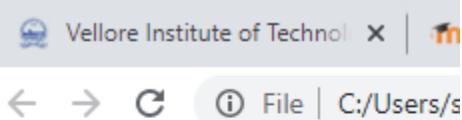
```
<head>
    <!-- title for page -->
    <title>HTML list</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
</head>
<body>
    <ul>
        <li>List Item 1</li>
        <li>List Item 2</li>
        <li>List Item 3</li>
    </ul>
    <!-- button -->
    <input type="button" value="Extract Text" onclick="extractText()" />
    <!-- script is used for javascript -->
    <script>
        function extractText()
        {
            //take the list items and display text
            alert(document.getElementsByTagName("ul")[0].innerText);
        }
    </script>
</body>
</html>
```

Screen 1:

- List Item 1
- List Item 2
- List Item 3

Extract Text

Screen 2: Screen when button is clicked



- List Item 1
- List Item 2
- List Item 3

Extract Text

\

NAME – ANSH GOEL

REGISTER NO. – 20BCE1798

COURSE NAME – INTERNET AND WEB PROGRAMMING

COURSE CODE – CSE3002

DATE – 27th September, 2022

LAB – 8

PHP BASICS

```
//Q1
```

Develop a simple program in PHP, to compute the yearly payment for the following: Initiate the loan amount of Rs.10000 with an interest of 10% per month in the program and compute the yearly payment. Display the result in a web page.

```
<!DOCTYPE html>
<html>
<body>

<?php
$P = 10000;
$R = 10;
$T = 1;

$SI = ($P * $T * $R) / 100;
$TA = ($SI + $P);

echo "Total amount = ". $TA

?>
</body>
</html>
```

OUTPUT:

Total amount = 11000

```
//Q2
```

Assume that a mathematician wants to automate an equation in-order to find out the value of the variable ‘y’ for the given equation. Being a programmer, to develop a program using PHP and find the value of ‘y’.

```
<!DOCTYPE html>
<html>
<body>
<?php
$X = 20;
$Y;
$Y = ($X*2 -5);
echo "Value of Y = ". $Y
?>
</body>
</html>
```

OUTPUT:

Value of Y = 35

```
//Q3
```

Develop a PHP program to allot the branch the student opt in engineering stream based on the entrance exam marks they secured :

```
If mark>=90 Computer Science Engineering
>=80 mark <90 Mechanical Engineering
>=70 mark <80 Civil Engineering
else eligible for other engineering branches
```

```
<?php
$marks = readline("Enter marks: ");
if($marks>=90){
echo "Computer Science ";
}
else if($marks>=80){ echo "Mechanical ";
}
else if($marks>=70){ echo "Civil";
}
else{
echo "Other Engineering";
}
?>
```

OUTPUT:

```
Enter marks obtained: 85
Mechanical Engineering
```

//Q4

Develop a PHP program to remove zeros from the given number and display the result in a web page. For example, if the number is 102005 then desired output is 15.

```
<?php
$num = readline("Enter number: ");
$t = $num;
$m = 0;
$c = 0;
while($t != 0){
$d = $t%10; if($d != 0){
$m += $d*pow(10, $c);
$c++;
}
$t /= 10;
}

echo $m;
?>
```

OUTPUT:

```
Enter number: 50040506
5456
```

//Q5

Given a four digit number ‘x’, to check whether ‘x’ is divisible by the sum of the digits of ‘x’. A number ‘x’ is said to be divisible by ‘y’, if the remainder is zero when ‘x’ divides ‘y’. Develop a PHP program using do...while loop. For example, the number ‘x’ is 1234 is not divisible by 10, because if we divide ‘1234’ with the sum of its individual digits ($1+2+3+4 = 10$), then the remainder is not zero.

```
<?php
$n = readline("Enter a number: ");
$t = $n;
$d = 0;
while($t != 0){
$d += $t%10;
$t /= 10;
}

if($n % $d == 0) echo "Divisible";
else
echo "Not Divisible";
?>
```

OUTPUT:

```
Enter a number: 5435
Not Divisible
```

//Q6

A sequence generator generates number from 1. The new number generated is equal to sum of number previously generated and index of the number generated. That is for nth number, n is the index and it is equal to (n-1)th number in sequence + n. 1, 1+2, 3+3, 6+4, 10+5, 15 + 6, Develop a php program to determine the nth number that will be generated by the sequence generator. Use do while loop in php.

```
<?php  
$n = readline("Enter a number: ");  
$c = 1;  
$s = 0; do{  
    $s += $c;  
    $c++;  
}while($c<=$n);  
  
echo $n."th number = $s";  
?>
```

OUTPUT:

```
Enter a number: 7  
7th number = 28
```

//Q7

Develop a simple PHP program using for loop to print the integers from 1 to 1000 omitting those integers which are divisible by 7

```
<html>
<head></head>
<body>
<?php
for($i=0; $i<=1000; $i++){ if($i%7 != 0)
echo "$i<br>";
}
?>

</body>
</html>
```

OUTPUT:

```
*2  
*3  
*4  
*5  
*6  
*7  
*8  
*9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
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89  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100  
101  
102  
103  
104  
105
```

//Q8

Assume that you are sending the 4 digit ATM PIN to your friend through email. For security purpose, you are encrypting the PIN and sending it. Develop the program in PHP using while loop to inculcate the following steps for the encryption process :

- (a).Reverse the 4 digit PIN.
- (b).In the reversed PIN, add 7 to each digit.
- (c).Replace each digit with remainder value after dividing by 10. (d). Swap the first digit with the third digit.
- (e).Swap the second digit with the fourth. Then print the encrypted integer.
For example Input(Actual PIN): 4567, then the output (Encrypted PIN): 2143
(Note: Initiate the input as 4567 in the program)

```
<?php  
$n = readline("Enter PIN: ");  
$t = $n;  
$s = 0;  
$e; while($t>0){
```

```

$d = (( $t % 10 ) + 7) % 10;
$s = $s * 10 + $d;
$t = floor($t / 10);
}
$e = floor( ( $s % 100 ) / 10 ) * 1000 + ( $s % 10 ) * 100 + floor( $s / 1000 ) * 10 +
floor( ( $s % 1000 ) / 100 );
echo "Encrypted PIN = $e";
?>

```

OUTPUT:

```

Enter PIN: 7479
Encrypted PIN = 1464

```

//Q9
‘z’ is to be computed as a function of ‘x’ and ‘y’ according to $z=3x^2+2y^3-25.5$. Compute the values of z as x varies from -1.5 to 1.5 increments of 0.5 and y varies from 0 to 3 in steps of 1. Develop a PHP program to compute ‘z’ for all pairs of (x,y).

```

<html>
<head></head>
<body>
<?php
$x;
$y;
$z;
for($x=-1.5; $x<=1.5; $x+=0.5){ for($y=0; $y<=3; $y++){
$z = 3*pow($x,2) + 2*pow($y,3) - 25.5; echo "z($x,$y) = $z<br>";
}

```

```

}
?>

</body>
</html>
```

OUTPUT:

```

: z(-1.5,0) = -18.75
z(-1.5,1) = -16.75
z(-1.5,2) = -2.75
z(-1.5,3) = 35.25
z(-1,0) = -22.5
z(-1,1) = -20.5
z(-1,2) = -6.5
z(-1,3) = 31.5
z(-0.5,0) = -24.75
z(-0.5,1) = -22.75
z(-0.5,2) = -8.75
z(-0.5,3) = 29.25
z(0,0) = -25.5
z(0,1) = -23.5
z(0,2) = -9.5
z(0,3) = 28.5
z(0.5,0) = -24.75
z(0.5,1) = -22.75
z(0.5,2) = -8.75
z(0.5,3) = 29.25
z(1,0) = -22.5
z(1,1) = -20.5
z(1,2) = -6.5
z(1,3) = 31.5
z(1.5,0) = -18.75
z(1.5,1) = -16.75
z(1.5,2) = -2.75
z(1.5,3) = 35.25
```

//Q10

A city has a dam of capacity ‘x’ litres, water comes to the dam from ‘n’ places. Given the value of ‘n’ and the quantity of water (in litres and millilitres) that comes from ‘n’ places, Write a PHP code to determine the total amount of water in the dam. Assume that the total quantity of water in the dam, will be always less than the capacity of the dam. For example, if there are three places from which water comes to the dam and the water from place 1 is 2 litres 500 ml, water from second place is 3 litres 400 ml and water from third place is 1 litre 700 ml then the total quantity of water in dam will be 7 litres 600 ml.

```

<?php
$n = readline("Enter number of places: ");
$l = array();
$m1 = array();
```

```
$sl = $sml = 0; for($i=0; $i<$n; $i++){
$j = $i+1;
$l[$i] = readline("Enter quantity of water(L) from place $j: ");
$m[$i] = readline("Enter quantity of water(mL) from place $j: ");
$sl += $l[$i];
$sml += $m[$i];
}
$sl += floor($sml/1000);
$sml = $sml%1000;
echo "Total quantity of water in tank = ".$sl."L ".$sml."mL";
?>
```

```
Enter number of places: 5
Enter quantity of water(L) from place 1: 50
Enter quantity of water(mL) from place 1: 10
Enter quantity of water(L) from place 2: 20
Enter quantity of water(mL) from place 2: 10
Enter quantity of water(L) from place 3: 30
Enter quantity of water(mL) from place 3: 10
Enter quantity of water(L) from place 4: 40
Enter quantity of water(mL) from place 4: 10
Enter quantity of water(L) from place 5: 60
Enter quantity of water(mL) from place 5: 10
Total quantity of water in tank = 200L 50mL
```

NAME – ANSH GOEL
REGISTER NO. – 20BCE1798
COURSE NAME – INTERNET AND WEB PROGRAMMING
COURSE CODE – CSE3002

LAB – 9
PHP

NAME: **ANSH GOEL**

REG NO.: **20BCE1798**

1. Write a PHP program to write 100 integers in to a text file. Read 10 numbers at a time from the file using PHP script and find the numbers which occurs odd number of times.
Sample Input : 4, 5, 4, 5, 2, 2, 3, 3, 2, 4
Output : 2, 4 9.

CODE:

```
<?php
$file = fopen("myfile.txt", "w");
ftruncate($file, 0);

for($i=0; $i<100;$i++){
    $n = rand(1,20)."\n";
    fwrite($file, $n);
}
fclose($file);

$file = file('myfile.txt');
$c=0;
$arr = array();
foreach($file as $line) {
    $n = $line;
    if((array_key_exists($n, $arr))){
        $arr[$n]++;
    }
    else{
        $arr[$n] = 1;
    }
    $c++;
    if($c%10 == 0){
        foreach($arr as $a => $b){
            if($b%2!=0)
                echo $a." ";
        }
        echo "<br>";
        unset($arr);
        $arr = array();
    }
}
```

```
    }  
}  
>?
```

OUTPUT:

```
4 8 18 2 15 16  
12 9 15 6  
2 3 15 20 6 8  
10 5 11 14 9 3  
9 4 5 10 20 18  
9 1 20 6 13 10  
11 4 3 1 20 10  
19 14 12 5 3 17 1 16  
13 11 19 4 8 17 20 7  
12 1 8 16 11 17 14 15
```

2. Implement simple currency calculator utility-program, which can be used to calculate currency conversions from dollars to euros. Exchange rates can be found for example on <http://www.x-rates.com/d/EUR/table.html>. Implement simple HTML-form where user can input amount of dollars (currency.html) and PHP-script (calculate.php) to calculate currency conversion. PHP-script will read the input values from HTML-form and perform conversion by multiplying dollars with current exchange rate.

CODE:

```
<html>  
<head>  
<style>  
#box  
{  
    width:350px;  
    height:290px;  
    margin:0px auto;  
    border:2px solid black;  
}  
h2{  
    text-align: center;  
}  
table{  
    margin:0px auto;  
}  
</style>
```

```

</head>

<body>

<form align="center" action="lab-9.2.php" method="post">

<div id="box">
<h2><center>Currency Converter</center></h2>
<table>
<tr>
<td>
    Enter Amount:<input type="text" name="amount"><br>
</td>
</tr>
<tr>
<td>
    <br><center>From:<select name='cur1'>
    <option value="USD" selected>US Dollar(USD)</option>
    </select>
</td>
</tr>
<tr>
<td>
    <br><center>To:<select name='cur2'>
    <option value="INR" >Indian Rupee(INR)</option>
    <option value="Euro" selected >Euro</option>
    </select>
</td>
</tr>
<tr>
<td> <br>
<input type='submit' name='submit' value="Submit"></center>

<td> <br>
<input type='reset' name='submit' value="Reset"></center>
</td>
</tr>
</table>
</form>
<?php
if(isset($_POST['submit'])){

$amount = $_POST['amount'];
$cur1 = $_POST['cur1'];
$cur2 = $_POST['cur2'];

if($cur1=="USD" AND $cur2=="Euro"){
echo "<center><b>Your Converted Amount is:</b><br></center>";
}
}

```

```

echo "<center>" . (int)$amount* 1.02 . "</center>";
}

if($cur1=="USD" AND $cur2=="INR"){
echo "<center><b>Your Converted Amount is:</b><br></center>";
echo "<center>" .(int) $amount* 81.51. "</center>";
}

?

</body>
</html>

```

OUTPUT:

The screenshot shows a "Currency Converter" application interface. At the top, it displays "Enter Amount:" followed by an input field. Below this, there are two dropdown menus: "From: US Dollar(USD)" and "To: Euro". The "To" dropdown has two options: "Indian Rupee(INR)" and "Euro", with "Euro" being the selected option and highlighted in grey. At the bottom left is a "Submit" button, and at the bottom right is a "Reset" button.

Currency Converter

Enter Amount:

From:

To:

Your Converted Amount is:
20.4

3. Implement simple application that can be used to send emails. Use email-function.

CODE:

```
<html>
  <head>
    <title>Sending HTML email using PHP</title>
  </head>

  <body>

    <?php
      $to = "xyz@somedomain.com";
      $subject = "This is subject";

      $message = "<b>This is HTML message.</b>";
      $message .= "<h1>This is headline.</h1>";

      $header = "From:abc@somedomain.com \r\n";
      $header .= "Cc:afgh@somedomain.com \r\n";
      $header .= "MIME-Version: 1.0\r\n";
      $header .= "Content-type: text/html\r\n";

      $retval = mail ($to,$subject,$message,$header);

      if( $retval == true ) {
        echo "Message sent successfully... ";
      }else {
        echo "Message could not be sent... ";
      }
    ?>
```

```
</body>
</html>
```

OUTPUT:

Receiver Email:

AnshGoel@gmail.com

Subject:

ABC@gmail.com

Message:

I am 17 years old !!

Send

4. Implement application, which can be used to calculate housing allowance for student. Housing allowance is 80% of reasonable housing cost. Reasonable housing cost is between 33.64 & 252.
 ? if cost is under 33.64 ? no allowance is paid. If cost is over 252 ?, maximum allowance 201.60 ? is paid. If cost is between 33.64 ? and 252?, allowance is 80%.

CODE:

```
<?php
$xam = $cost = "";
if($_SERVER['REQUEST_METHOD']=="POST"){
    if(isset($_POST['check']) && !empty(trim($_POST['cost'])) && is_numeric(trim($_POST['cost']))){
        $cost = trim($_POST['cost']);
        if($cost<33.64)
            $xam = 0;
        else if($cost<252)
            $xam = 0.8*$cost;
        else
            $xam = 201.60;
    }
}
?>
```

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>q3</title>
</head>
<body>
    <h2>Housing Allowance Calculator</h2>
    <form action="" method="post">
        <label for="cost">Housing Cost: </label>
        <input type="text" name="cost" value=<?php echo $cost?>>
        <button type="submit" name="check">Check</button>
        <br><br>
        <label for="allowance">Allowance: </label>
        <input readonly type="text" value=<?php echo $xam?>>
    </form>
</body>
</html>

```

OUTPUT:

Housing Allowance Calculator

Housing Cost:

Allowance:

5. Implement PHP-script (no html is needed) to print out multiplication table of number 10 (see picture below). User for-structure and table html-element.

CODE:

```

<?php
echo "Multiplication Table of 10";
echo "\n";
$num=10;
echo "<table border =\"1\" style='border-collapse: collapse'>";
for($i=1;$i<11;$i++){
echo "<tr> \n";
$ans=$num*$i;
echo "<td> $num * $i = $ans </td>";
echo "</tr>";
}
echo "</table>";

```

```
?>
```

OUTPUT:

Multiplication Table of 10

| |
|---------------|
| 10 * 1 = 10 |
| 10 * 2 = 20 |
| 10 * 3 = 30 |
| 10 * 4 = 40 |
| 10 * 5 = 50 |
| 10 * 6 = 60 |
| 10 * 7 = 70 |
| 10 * 8 = 80 |
| 10 * 9 = 90 |
| 10 * 10 = 100 |

6. Implement PHP-script to print out times from 8 to 16 to HTML-table.

CODE:

```
<?php  
$num=10;  
echo "<table border =\"1\" style='border-collapse: collapse'>";  
for($i=8;$i<17;$i++){  
echo "<tr> \n";  
$ans=number_format($i, 2);  
echo "<td> $ans </td>";  
echo "</tr>";  
}  
echo "</table>";  
?>
```

OUTPUT:

| |
|-------|
| 8.00 |
| 9.00 |
| 10.00 |
| 11.00 |
| 12.00 |
| 13.00 |
| 14.00 |
| 15.00 |
| 16.00 |

7. Modify previous exercise so that also day of weeks are printed to page necessary amounts of columns are printed out to each row. Use conditional and loop -structures to implement exercise.

CODE:

```
<?php
$num=10;
echo "<table border =\"1\" style='border-collapse: collapse'>";
echo "<tr>";
echo "<td></td>";
echo "<td>Monday</td>";
echo "<td>Tuesday</td>";
echo "<td>Wednesday</td>";
echo "<td>Thursday</td>";
echo "<td>Friday</td>";
for($i=8;$i<17;$i++){
echo "<tr> \n";
$ans=number_format($i, 2);
echo "<td> $ans </td>";
for($j=0;$j<5;$j++){
echo"<td></td>";
}
echo "</tr>";
}
echo "</table>";
?>
```

OUTPUT:

| | Monday | Tuesday | Wednesday | Thursday | Friday |
|-------|--------|---------|-----------|----------|--------|
| 8.00 | | | | | |
| 9.00 | | | | | |
| 10.00 | | | | | |
| 11.00 | | | | | |
| 12.00 | | | | | |
| 13.00 | | | | | |
| 14.00 | | | | | |
| 15.00 | | | | | |
| 16.00 | | | | | |

NAME – ANSH GOEL

REGISTER NO. – 20BCE1798

COURSE NAME – INTERNET AND WEB PROGRAMMING

COURSE CODE – CSE3002

LAB – 10

XML AND

AJAX

NAME: ANSH GOEL

REG NO.: 20BCE1798

Q1. Implement the following session using PHP

- Create a Session
- Check whether the session variable is already set. If so, display else throw an error.
- Delete the session variable and print the status
- Destroy the session and print the status

CODE:

```
<?php  
// Start the session session_start();  
?  
<!DOCTYPE html>  
<html>  
<body>  
<?php  
// Set session variables  
  
$_SESSION["favcolor"] = "green"; $_SESSION["favanimal"] = "cat"; echo "Session variables are  
set.<br>"; echo "Favorite color is " . $_SESSION["favcolor"] . ".<br>"; echo "Favorite animal is " .  
$_SESSION["favanimal"] . ".<br>"; print_r($_SESSION);
```

?>

</body>

</html>

OUTPUT:

A screenshot of a browser window with the URL "localhost:8080/session/q1.php". The page content displays session variables:

Session variables are set.
Favorite color is green.
Favorite animal is cat.
Array ([favcolor] => green [favanimal] => cat)

Destroy the Session:

CODE:

```
<?php  
session_start();  
?  
<!DOCTYPE html>  
<html>  
<body>  
<?php  
// remove all session variables session_unset(); // destroy the session session_destroy(); echo "Session destroyed<br>"; print_r($_SESSION);  
?  
</body>  
</html>
```

OUTPUT:

A screenshot of a browser window with the URL "localhost:8080/session/q1.php". The page content displays:

Session destroyed
Array ()

Q2. Implement the following cookies using PHP

- Create a cookie with a value IWP.
- The cookie should expire in 3 days
- Check whether the cookie is present on the website. If so, display else throw an error
- Delete the created cookie before an hour
- Check whether the cookie is disabled or not. Print the status

CODE:

```
<?php  
$cookie_name = "subject";  
$cookie_value = "IWP";  
// setcookie($cookie_name, $cookie_value, time() + (86400 * 3), "/"); // 86400  
= 1 day  
?>  
<html>  
<body> <?php if(!isset($_COOKIE[$cookie_name])) { echo "Cookie named '" . $cookie_name . "' is  
not set!"; } else { echo "Cookie '" . $cookie_name . "' is set!<br>"; echo "Value is: " .  
$_COOKIE[$cookie_name]."<br>"; echo "This cookie is set on ".time());  
}  
?>  
</body>  
</html>
```

OUTPUT:



CODE:

```
<?php  
// set the expiration date to one hour ago setcookie("subject", "", time() - 3600);  
?>  
<html>  
<body> <?php echo "Cookie 'user' is deleted.";  
?>  
</body>  
</html>
```

OUTPUT:

Cookie 'user' is deleted.

Q3. Create a text file (hobby.txt) with a paragraph (write your hobbies). Write a program using AJAX to view hobby.txt content

CODE:

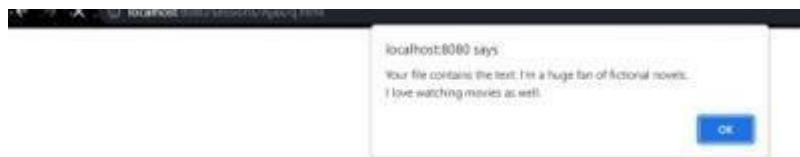
```
<!DOCTYPE html>

<head><title>Ajax Test</title> <script type="text/javascript"> var xmlhttp = new XMLHttpRequest();
xmlHttp.open("GET", "Hobbies.txt", true); xmlhttp.addEventListener("load", ajaxCallback, false);
xmlHttp.send(null); function ajaxCallback(event){ alert( "Your file contains the text: " +
event.target.responseText );
}

</script>
</head>

<body>
```

OUTPUT:



XML exercises:

Q1. Create an XML file for payroll info. system. Apply CSS & DTD.

CODE:

XML:

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<?xml-stylesheet type="text/css" href="01.css"?>  
<!DOCTYPE Payroll SYSTEM "01.dtd">  
<Payroll>
```

```
<title>Hello User! Welcome to PayRoll information system.</title>
<User1>
<name>Kane Williamson</name>
<EmployeeID>Employee ID:101</EmployeeID>
<Contact>Phone no: 98765543210</Contact>
<salary>Salary: 50000</salary>
</User1>
<User2>
<name>Steve Smith</name>
<EmployeeID>Employee ID:102</EmployeeID>
<Contact>Phone no: 5713658940</Contact>
<salary>Salary: 75000</salary>
</User2>
<User3>
<name>Virat Kohli</name>
<EmployeeID>Employee ID:103</EmployeeID>
<Contact>Phone no: 978765940</Contact>
<salary>Salary: 44000</salary>
</User3>
<User4>
<name>Joe Root</name>
<EmployeeID>Employee ID:104</EmployeeID>
<Contact>Phone no: 8563956480 </Contact>
<salary>Salary: 70000</salary>
</User4>
</Payroll>
```

CSS:

```
Payroll { font-size: 80%; margin: 0.5em; font-family: Verdana; display: block;
```

}

User1,

```

User2,
User3, User4 { display: block; border: 1px solid silver; margin: 0.5em; padding: 0.5em; background-
color: whitesmoke;
} title { display: block; font-weight: bolder; text-align: center; font-size: 30px; background-color:
green; color: white;
}
signature {
/* display: block; */ font-weight: bolder; text-align: right; font-size: 30px; background-color: rgb(207,
6, 63); color: white;
} name, EmployeeID,
Contact,
salary { display: block; text-align: center;
} name { color: green; text-decoration: underline; font-weight: bolder; font-size: 20px;
}
EmployeeID { color: green;
}
Contact { color: brown;
} salary { color: blue;
}

```

DTD:

```

<!ELEMENT Payroll (title,signature,User1,User2,User3,User4)>
<!ELEMENT title (#PCDATA)>
<!ELEMENT signature (#PCDATA)>
<!ELEMENT User1 (name,EmployeeID,Contact,salary)>
<!ELEMENT User2 (name,EmployeeID,Contact,salary)>
<!ELEMENT User4 (name,EmployeeID,Contact,salary)>
<!ELEMENT User3 (name,EmployeeID,Contact,salary)>
<!ELEMENT name (#PCDATA)>
<!ELEMENT EmployeeID (#PCDATA)>
<!ELEMENT Contact (#PCDATA)>
<!ELEMENT salary (#PCDATA)>

```

OUTPUT:

Kane Williamson
Employee ID:101
Phone no: 98765543210
Salary: 50000

Steve Smith
Employee ID:102
Phone no: 5713658940
Salary: 75000

Virat Kohli
Employee ID:103
Phone no: 978765940
Salary: 44000

Joe Root
Employee ID:104
Phone no: 8563956480
Salary: 70000

Q2. For an online book store, create a "data islands." Use HTML & CSS for the same.

CODE:

XML:

```
<?xml version="1.0" encoding="ISO-8859-1"?>  
<?xmlstylesheet type="text/css" href="02.css"?>  
<bookstore>  
<title>Hello User! Welcome to our Online book store.</title>  
<book1>  
<name>The Silent Patient</name>  
<author>Alex Michaelides</author>  
<publishDate>2019</publishDate>  
<synopsis>The Silent Patient is a 2019 psychological thriller novel written by British  
– Cypriot author Alex Michaelides.</synopsis></book1>  
<book2>  
<name>Little Women</name>  
<author>Louisa May Alcott  
</author>
```

<publishDate>1868-69</publishDate>

<synopsis>Little Women is a coming-of-age novel written by

```

American novelist Louisa May Alcott.</synopsis> </book2>

<book3>

<name>Divergent</name>

<author>Veronica Roth

</author>

<publishDate>2011</publishDate>

<synopsis>Divergent is the debut novel of American novelist Veronica Roth, published by HarperCollins Children's Books in 2011. </synopsis> </book3>

</bookstore>

```

CSS:

```

bookstore { font-size: 80%; margin: 0.5em; font-family: Verdana; display: block;

} book1, book2, book3{ display: block; border: 1px solid silver; margin: 0.5em; padding: 0.5em; background-color: whitesmoke;

}

signature {

/* display: block; */ font-weight: bolder; text-align: right; font-size: 30px; background-color: rgb(207, 6, 63); color: white;

} title { display: block; font-weight: bolder; text-align: center; font-size: 30px; background-color: green; color: white;

} name, author,publishDate,synopsis { display: block; text-align: left;

} name { color: green; text-decoration: underline; font-weight: bolder; font-size: 20px;

} author { color: green;

} publishDate { color: brown;

} synopsis { color: blue;

}

```

HTML:

```

<html>

<body>

<xml id="employee" src="02.xml"></xml>

```

</body>

</html>

OUTPUT:

The screenshot shows a web browser window with the URL '127.0.0.1:5500/03.xml'. The page title is 'Hello User! Welcome to our Online book store.' Below the title, there are three book entries listed in a table-like format:

| | | |
|--|--|--|
| The Silent Patient Alex Michaelides 2019 The Silent Patient is a 2019 psychological thriller novel written by British & Cypriot author Alex Michaelides. | Little Women Louisa May Alcott 1868-69 Little Women is a coming-of-age novel written by American novelist Louisa May Alcott. | Divergent Veronica Roth 2011 Divergent is the debut novel of American novelist Veronica Roth, published by HarperCollins Children's Books in 2011. |
|--|--|--|

Q3. For the food restaurant system, create an XML file. Apply CSS & DTD.

CODE:

XML:

```
<?xml version="1.0" encoding="ISO-8859-1"?>

<?xml-stylesheet type="text/css" href="03.css"?>

<restaurant>

    <title>Hello User! Welcome to our Restaurant.</title>

    <item1>

        <dishname>Butter Chicken</dishname>

        <details>It is a type of curry made from chicken with a spiced tomato and butter sauce. Its sauce is known for its rich texture.</details>

        <price>350/-</price>

        <User_rating>4.9 stars</User_rating></item1>

    <item2>

        <dishname>Gulab Jamun</dishname>

        <details>Gulab jamun is a sweet confectionary or dessert, originating in the Indian subcontinent and a type of mithai popular in India</details>

        <price>60/- (5pcs)</price>

        <User_rating>4.3 stars</User_rating></item2>

    <item3>
```

<dishname>Vada Pav</dishname>

<details>The dish consists of a deep fried potato dumpling placed inside a bread bun sliced almost in half through the middle.</details>

```

<price>20/-</price>
<User_rating>3.8 stars</User_rating></item3>
</restaurant>

```

CSS:

```

restaurant { font-size: 80%; margin: 0.5em; font-family: Verdana; display: block;
} item1,item2,item3{ display: block; border: 1px solid silver; margin: 0.5em; padding:
0.5em; background-color: whitesmoke;
}
signature {
/* display: block; */ font-weight: bolder; text-align: right; font-size: 30px; background-color: rgb(207,
6, 63); color: white;
} title { display: block; font-weight: bolder; text-align: center; font-size: 30px; background-color:
green; color: white;
} dishname,details,price,User_rating { display: block; text-align: left;
} dishname {
color: rgb(229, 8, 111); text-decoration: underline; font-weight: bolder; font-size: 20px;
} details { color: green;
} price { color: brown; }
User_rating { color: blue;
}

```

DTD:

```

<!ELEMENT restaurant (title,signature,item1,item2,item3)>
<!ELEMENT title (#PCDATA)>
<!ELEMENT signature (#PCDATA)>
<!ELEMENT item1 (dishname,details,price,User_rating)>
<!ELEMENT item2 (dishname,details,price,User_rating)>
<!ELEMENT item3 (dishname,details,price,User_rating)>
<!ELEMENT dishname (#PCDATA)>
<!ELEMENT details (#PCDATA)>
<!ELEMENT price (#PCDATA)>
<!ELEMENT User_rating (#PCDATA)>

```

OUTPUT:

The screenshot shows a mobile application interface. At the top, there is a header bar with icons for back, forward, and search, followed by the text "127.0.0.1:5500/index.html". Below the header is a green banner with the text "Hello User! Welcome to our Restaurant.". The main content area displays three menu items in separate cards:

- Butter Chicken**
It is a type of curry made from chicken with a spiced tomato and butter sauce. Its sauce is known for its rich texture.
350/-
4.9 stars
- Gulab Jamun**
Gulab jamun is a sweet confectionary or dessert, originating in the Indian subcontinent and a type of mithai popular in India.
60/- (5pcs)
4.3 stars
- Vada Pav**
The dish consists of a deep fried potato dumpling placed inside a bread bun sliced almost in half through the middle.
20/-
3.8 stars

NAME – ANSH GOEL

REGISTER NO. – 20BCE1798

COURSE NAME – INTERNET AND WEB PROGRAMMING

COURSE CODE – CSE3002

LAB – 11

NODE.JS

NAME: ANSH GOEL

REG NO.: 20BCE1798

Create a student grade history using node.js ad mongoDB. Perform the following functions. Read,Insert,UPDATE, Delete and drop the collection.

Q. Create the database for the student grade history using mongoDB and node.js and perform the following operations:

In MongoDB database name test_database and collection name Grades is created

The screenshot shows the MongoDB Compass interface. On the left, there's a sidebar with connection details: 'localhost:27017', '4 DBS', '5 COLLECTIONS', and a 'FAVORITE' button. Below that are sections for 'HOST' (localhost:27017), 'CLUSTER' (Standalone), and 'EDITION' (MongoDB 6.0.2 Community). On the right, under 'Collections', there are two entries: 'Grades' and 'test_collection'. The 'Grades' entry shows 'Storage size: 4.10 kB', 'Documents: 5', and 'Avg. document size 93.00 B'. The 'test_collection' entry shows 'Storage size: 4.10 kB', 'Documents: 0', and 'Avg. document size 0 B'. There are also 'Create collection', 'View', and filter buttons.

| Collection | Storage size | Documents | Avg. document size |
|-----------------|--------------|-----------|--------------------|
| Grades | 4.10 kB | 5 | 93.00 B |
| test_collection | 4.10 kB | 0 | 0 B |

--> Insert 5 documents

The screenshot shows a MongoDB interface with three document entries listed:

- `_id: ObjectId('636adfbe22221f5cba6b00b2')`
Name: "Anali"
Reg No: "20BCE1790"
PDC: "A"
IWP: "D"
ALA: "B"
- `_id: ObjectId('636adfbe22221f5cba6b00b3')`
Name: "Jaskhan"
Reg No: "20BCE1790"
PDC: "B"
IWP: "C"
ALA: "E"
- `_id: ObjectId('636adfbe22221f5cba6b00b4')`
Name: "Akshit"
Reg No: "20BCE1818"
PDC: "B"
IWP: "B"
ALA: "S"

test_database.Grades

The screenshot shows the 'test_database.Grades' collection with five document entries listed:

- `_id: ObjectId('636adfbe22221f5cba6b00b4')`
Name: "Akshit"
Reg No: "20BCE1818"
PDC: "B"
IWP: "B"
ALA: "S"
- `_id: ObjectId('636adfbe22221f5cba6b00b5')`
Name: "Love"
Reg No: "20BCE1801"
PDC: "C"
IWP: "A"
ALA: "D"
- `_id: ObjectId('636adfbe22221f5cba6b00b6')`
Name: "Kashish"
Reg No: "20BCE1790"
PDC: "D"
IWP: "S"
ALA: "E"

--> Update 2 documents to the existing collection

Updating first document

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://127.0.0.1:27017/";

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("StudentGradeHistory");
  var myquery = { address: "Valley 345" };
  var newvalues = { $set: {name: "Mickey", address: "Canyon 123" } };
  dbo.collection("customers").updateOne(myquery, newvalues, function(error, result) {
    if (error) throw error;
    console.log("1 document updated");
    db.close();
  });
});
```

The screenshot shows the MongoDB Compass interface. A modal dialog is open, titled 'Edit' with the identifier '5'. It displays a document with fields: id, Name, Reg No, PDC, IWP, and ALA. The 'IWP' field has a value of 'C' highlighted with a red box. The status bar at the bottom of the dialog says 'Document modified.' There are 'CANCEL' and 'UPDATE' buttons at the bottom right.

The screenshot shows the MongoDB Compass interface after the update. A modal dialog is open, titled 'Edit' with the identifier '5'. It displays the same document with the 'IWP' field now having a value of 'B'. The status bar at the bottom of the dialog says 'Document updated.' There are 'CANCEL' and 'UPDATE' buttons at the bottom right.

Updating 2nd document



--> Find the existing information in the database

Finding {Name : 'Ansh'}

FILTER {Name : 'Ansh'}

ADD DATA ▾

VIEW

`_id: ObjectId('636adfbe22221f5cba6b00b2')
Name: "Ansh"
Reg No: "20BCE1798"
PDC: "S"
IWP: "C"
ALA: "B".`

Finding {ALA : 'S'}

FILTER {ALA : 'S')}

ADD DATA ▾

VIEW

`_id: ObjectId('636adfbe22221f5cba6b00b3')
Name: "Saksham"
Reg No: "20BCE1598"
PDC: "A"
IWP: "C"
ALA: "S".`

`_id: ObjectId('636adfbe22221f5cba6b00b4')
Name: "Akshit"
Reg No: "20BCE1818"
PDC: "B"
IWP: "B"
ALA: "S".`

--> Drop the collection and database

