

Regd. No.: Y21CS043

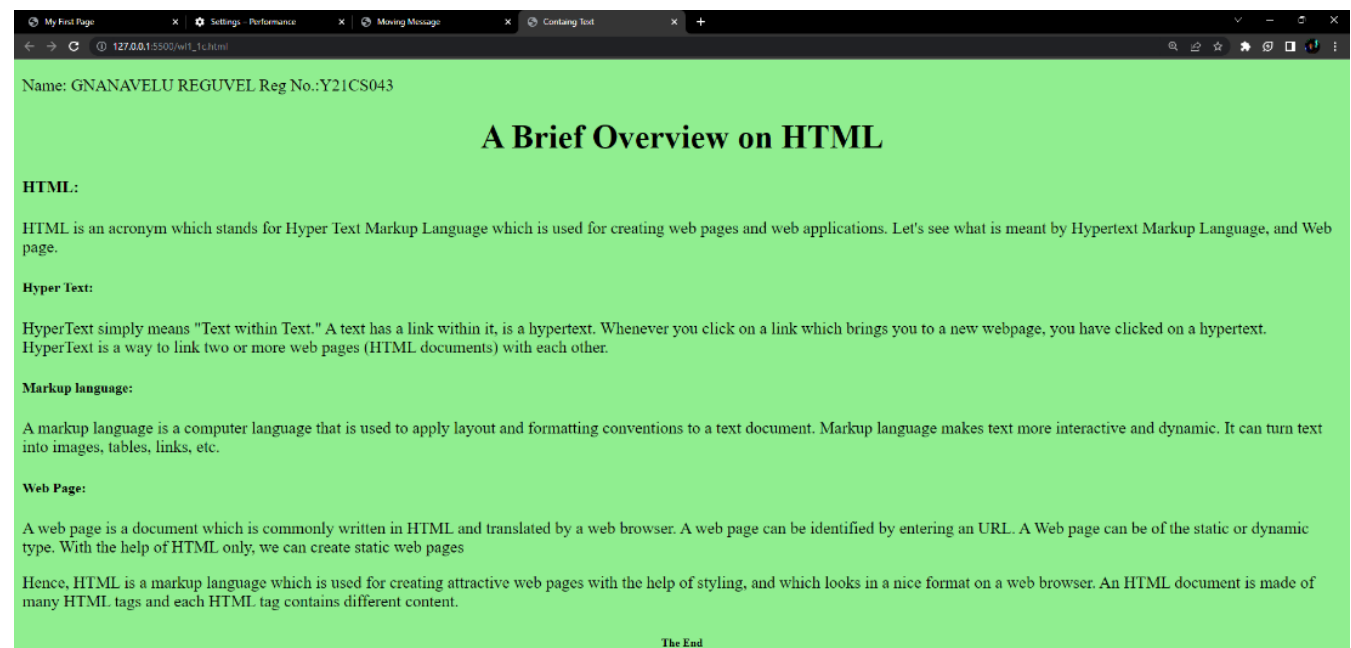
1A:



1B:



1C:



LAB CYCLE -I

1.

A.Aim: Create a web page having the background in green and title "My First Page".

```
<html>
  <title>
    1a
  </title>
  Name : GNANAVELU REGUVEL<br>
  Reg.No : Y21CS043<br>
  <body bgcolor = "#006a67">
    <br>
    <p align = "center" style = "background-color:#6b510e">Kailash-Y21CS043</p>
  </body>
</html>
```

B.Aim: Create a web page of pink colour and display a moving message in red colour.

```
<html>
  <title>
    1b
  </title>
  Name : GNANAVELU REGUVEL<br>
  Reg.no : Y21CS043<br>
  <body bgcolor = "#fff99">
    <br>
    <marquee> <font color = "brown">GNANAVELU REGUVEL</font></marquee>
  </body>
</html>
```

C.Aim: Design a web page containing text, in form of paragraphs giving suitable heading style.

```
<html>
  <title>
    1c
  </title>
  Name : GNANAVELU REGUVEL<br>
  Reg.no : Y21CS043<br>
  <body bgcolor = "grey">
    <h1 style = "color:blue">
      About Online Random Text Generator Tool
    </h1>
    <p style = "color:gold">
      If the sentence is the essential soul to express oneself in their own way. Then the paragraph is the
      virtual body of it. The Text Generator is an intelligent tool that creates random text incorporated with
      random thoughts.
    </p>
  </body>
</html>
```

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2A:



2B:



2C:



2.

A.Aim: Create a web page which displays WELCOME text using heading tags (h1 to h6)

```
<html>
  <head>
    <title>
      2a
    </title>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
  </head>
  <body bgcolor = "#6e228e">
    <h1>WELCOME</h1><br><hr>
    <h2>WELCOME</h2><br><hr>
    <h3>WELCOME</h3><br><hr>
    <h4>WELCOME</h4><br><hr>
    <h5>WELCOME</h5><br><hr>
    <h6>WELCOME</h6><br><hr>
  </body>
</html>
```

B.Aim: Create a web page which displays WELCOME text using tag.

```
<html>
  <head>
    <title>
      2b
    </title>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
  </head>
  <body bgcolor = "#00ff00">
    <br>
    <b> WELCOME </b>
  </body>
</html>
```

C.Aim: Create a web page which displays h₂o and x²+y² using <sup> tag and <sub> tag.

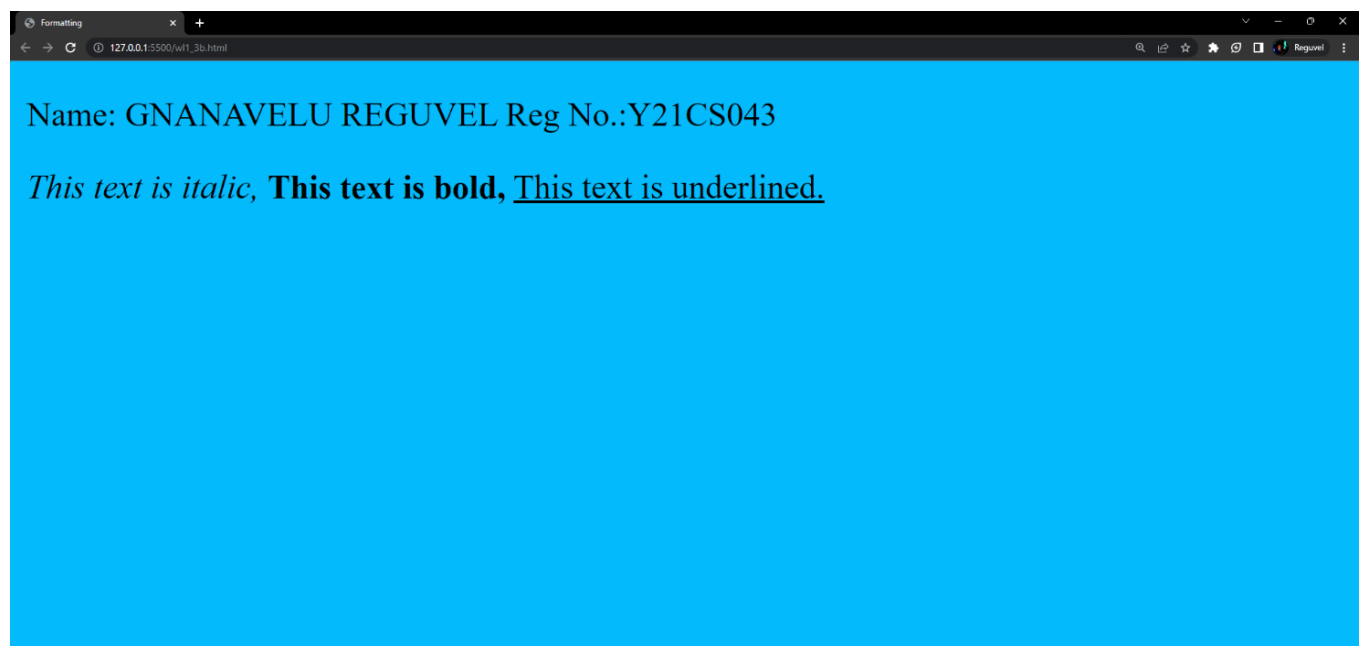
```
<html>
  <head>
    <title>
      2c
    </title>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
  </head>
  <body bgcolor = "#d67800">
    h<sub>2</sub></sub>o <br><hr> x<sub>2</sub></sub> + h<sub>2</sub></sub>
  </body>
</html>
```

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3A:



3B:



A.Aim: Create a web page to show different attributes of Font tag.

```
<html>
  <head>
    <title>3a</title>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
  </head>
  <body bgcolor = "#129999">
    <h2><u>Describing font size</u></h2>
    <font size = "1">Kailash</font><br><hr>
    <font size = "2">Kailash</font><br><hr>
    <font size = "3">Kailash</font><br><hr>
    <font size = "4">Kailash</font><br><hr>
    <font size = "5">Kailash</font><br><hr>
    <font size = "6">Kailash</font><br><hr>
    <font size = "7">Kailash</font><br><hr>
    <h2><u>Describing font color</u></h2>
    <font color = "blue">GNANAVELU REGUVEL</font><br><hr>
    <font color = "#450099">GNANAVELU REGUVEL</font><br><hr>
    <h2><u>Describing font family</u></h2>
    <font face = "verdana">Nani</font><br><hr>
    <font face = "lucida calligraphy">Nani</font><br><hr>
    <font face = "cosmic sans MS">Nani</font><br><hr>
  </body>
</html>
```

B.Aim: Create a web page to show different attributes: italics, bold, underline.

```
<html>
  <head>
    <title>3b</title>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
  </head>
  <body bgcolor = "pink">
    <p>
      Bold text - <b>Kailash</b><br><hr>
      Italic text - <i>Kailash</i><br><hr>
      underlined text - <u>Kailash</u><br><hr>
    </p>
  </body>
</html>
```

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3C:

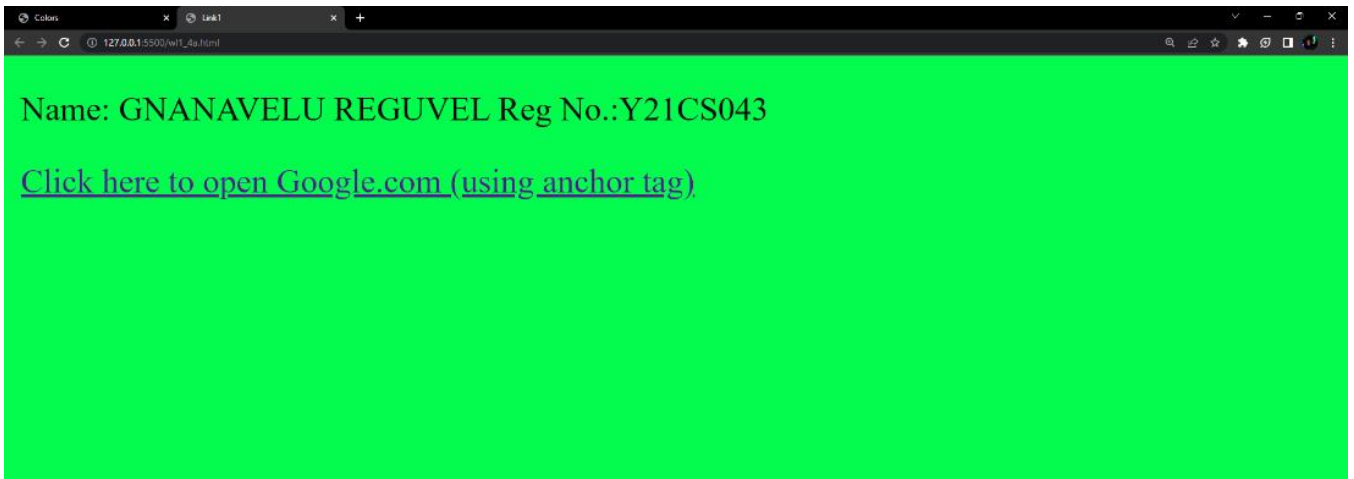


C.Aim: Design a web page having background colour yellow and giving text colour red

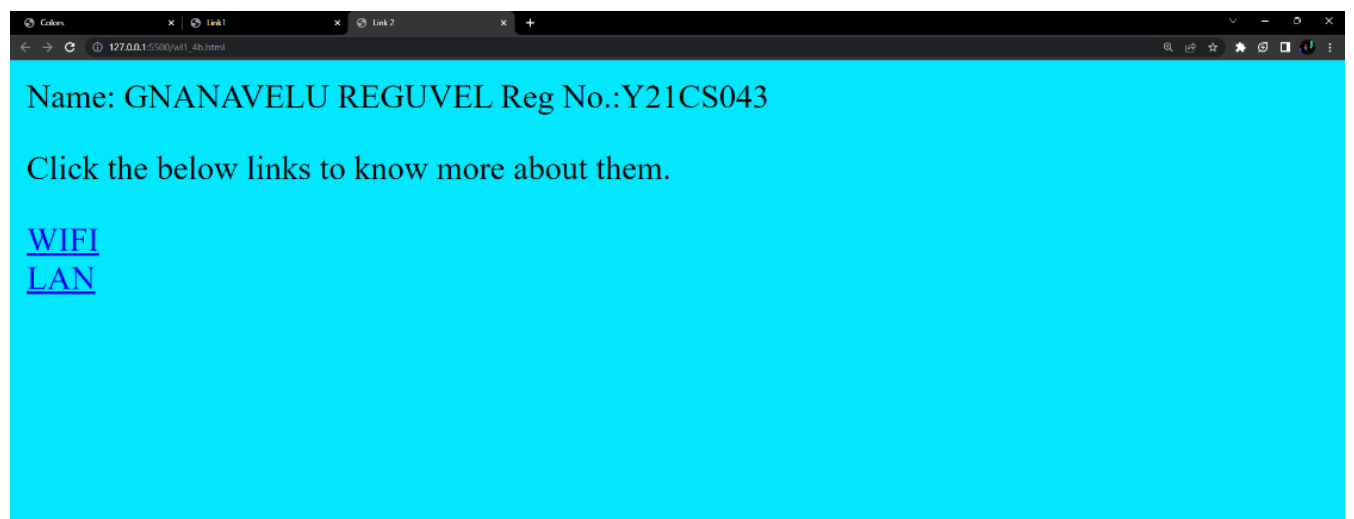
```
<html>
  <head>
    <title>
      3c
    </title>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
  </head>
  <body bgcolor = "yellow">
    <p style = "color:red;font-size:40px">
      Web Technologies
    </P>
  </body>
</html>
```

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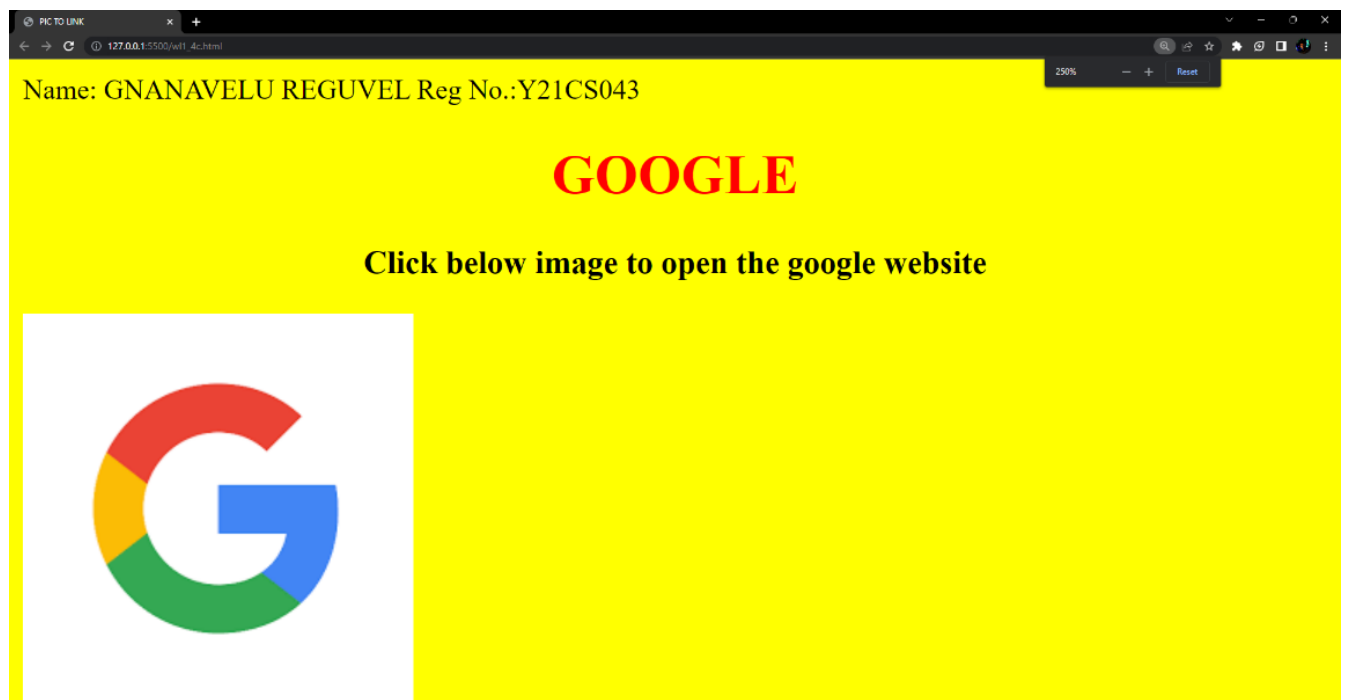
4A:



4B:



4C:



4.

A.Aim: Create a web page using href attribute of anchor tag & the attribute: alink, vlink etc.

```
<html>
  <head>
    <title>4a</title>Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
  </head>
  <body alink = "blue" vlink = "red" bgcolor = "#225599">
    <h3>Anchor tag using href, alink, vlink</h3>
    <a href = "https://www.w3schools.com/html/html_colors.asp">Colors in html</a>
  </body>
</html>
```

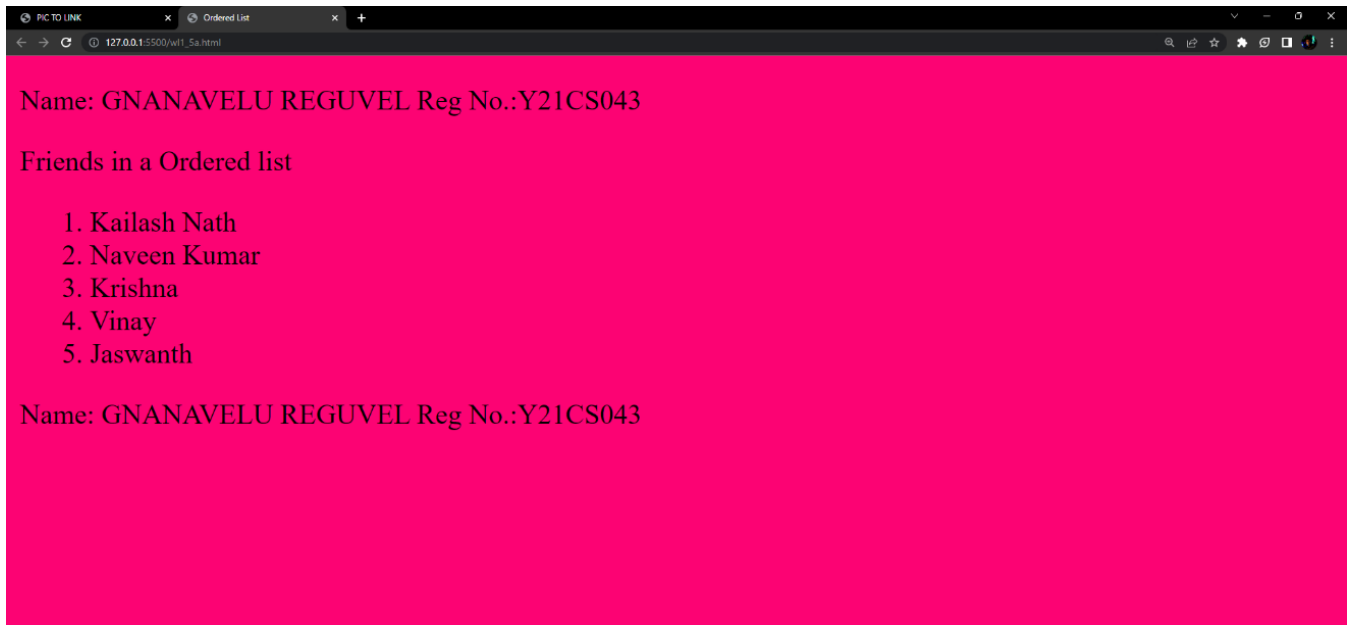
B.Aim: Create links on the words e.g. —Wi-Fi and —LAN to link them to Wikipedia pages.

```
<html>
  <head>
    <title>4b</title>Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
  </head>
  <body bgcolor = "#ccff66">
    <h3>Links</h3><p>wifi:</p>
    <a href = "https://en.wikipedia.org/wiki/Wi-Fi">WIFI</a><br><hr>
    <p>lan:</p><a href =
"https://en.wikipedia.org/wiki/Local_area_network">LAN</a><br><hr>
  </body>
</html>
```

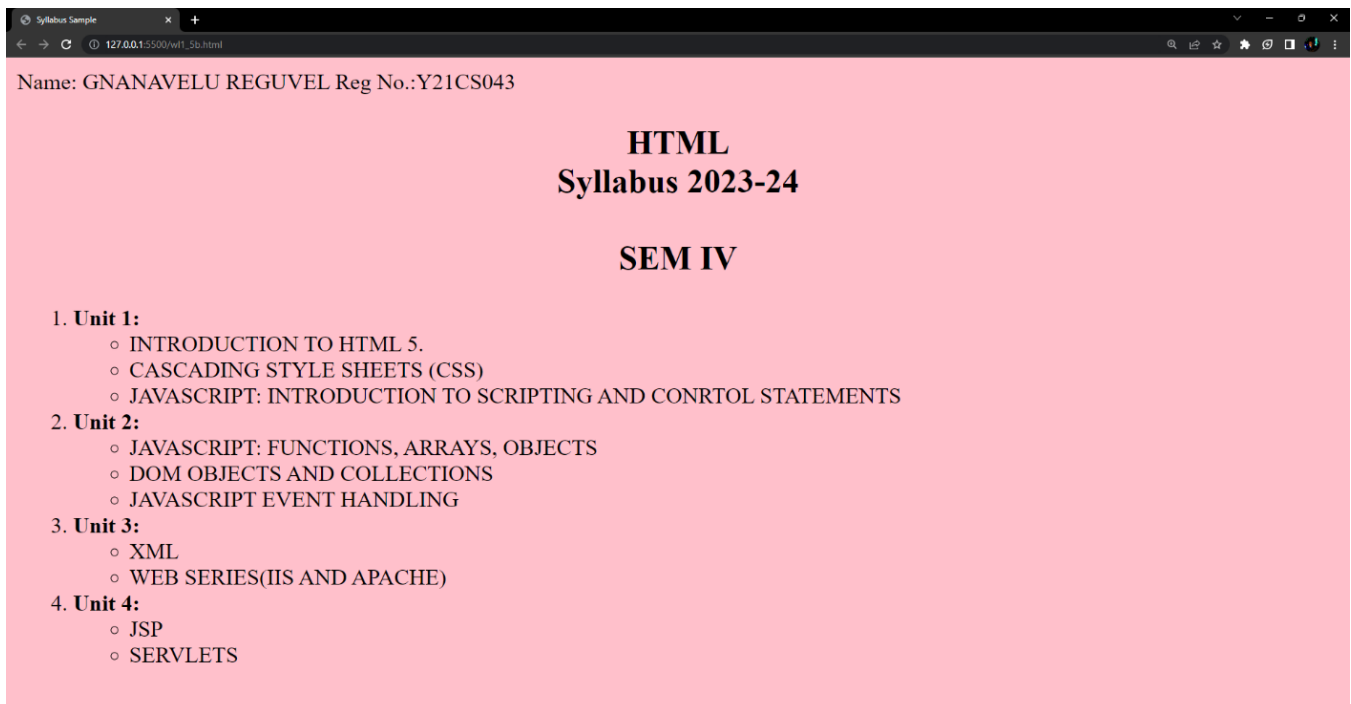
C.Aim: Create a web page with appropriate content and insert an image towards the left hand side of the page. When user clicks on the image, it should open another Web page.

```
<html>
  <head>
    <title>4c</title>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
  </head>
  <body bgcolor = "#cc00cc">
    <h2>Bugatti</h2><a href =
"https://www.bugatti.com/fileadmin/_processed_/sei/p1/se-image-
fbf28c7252f24bee40d73108cc3bad71.jpg">
      <img src = "https://www.bugatti.com/fileadmin/_processed_/sei/p1/se-
imagefbf28c7252f24bee40d73108cc3bad71.jpg"
        alt = "bugatti car" width = "500" height = "500">
    </left>
  </a>
</body>
</html>
```

5A:



5B:



5.

a.Aim: Create a web page, showing an ordered list of the names of five of your friends.

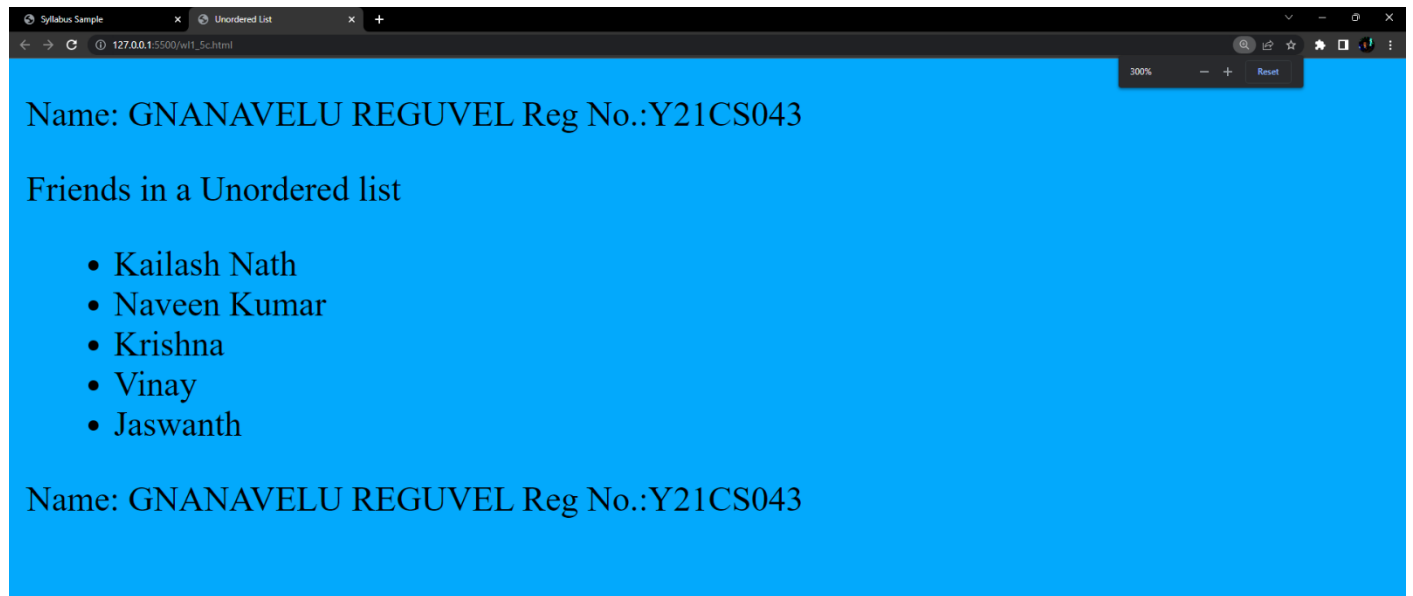
```
<html>
  <head>
    <title>5a</title>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
  </head>
  <body bgcolor = "#6699cc">
    <h3>My Friends:</h3>
    <ul type = "circle">
      <li>Reguvel</li>
      <li>Krishna</li>
      <li>Mohith</li>
      <li>Jai Kiran</li>
      <li>Sri ram</li>
    </ul>
  </body>
</html>
```

b.Aim: Create a web page containing a nested list showing the content page of any book

```
<html>
  <head>
    <title>5b</title>
    name : GNANAVELU REGUVEL<br>
    reg.no : Y21CS043<br>
  </head>
  <body bgcolor = "#0099ff">
    <h2><u>Beginning android programming with android studio</u></h2>
    <ul>
      <li><b>Getting started</b></li>
      <ol type = "a">
        <li>What is android?</li>
        <li>Obtaining tools</li>
        <li>Launching application</li>
      </ol>
      <li><b>Using android studio</b></li>
      <ol type = "a">
        <li>Exploring</li>
        <li>Debugging</li>
      </ol>
      <li><b>Different applications</b></li>
      <ol type = "a">
        <li>Calling</li>
        <li>Message</li>
        <li>Photos</li>
        <li>Web browser</li>
        <li>Media player</li>
      </ol>
    </ul>
  </body></html>
```

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5C:



c.Aim: Create a web page, showing an unordered list of names of five of your friends

```
<html>
  <head>
    <title>5c</title>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
  </head>
  <body bgcolor = "yellow">
    <h3>My Friends:</h3>
    <ol type = "1">
      <li>Reguvel</li>
      <li>Krishna</li>
      <li>Mohith</li>
      <li>Jai Kiran</li>
      <li>Sri ram</li>
    </ol>
  </body>
</html>
```

6A:

Name: GNANAVELU REGUVEL Reg No.:Y21CS043							
TIME TABLE OF CSE A SEM IV							
Day	I 8:00-9:00	II 9:00-10:00	III 10:00-11:00	11:00-12:00	IV 12:00-1:00	V 1:00-2:00	VI 2:00-3:00
Monday	<--WT AB(ACC)-->			L U N C H	CS	OS	WT
Tuesday	CS	E&H	WT		DBMS	SE	OS
Wednesday	SE	SE	WT		DBMS	CS	OS
Thursday	<--SOC LAB(ACC)-->		DBMS		<--DBMS LAB(ACC)-->		
Friday	SOC	OS	WT		DBMS	CS	E&H
Saturday	<--CC LAB(C3 LAB)-->		SOC		<--CS LAB(ACC)-->		

6.

a.Aim: Create a table to show your class timetable using rowspan and colspan attributes.

```

<html>
  <head>
    <title>6a</title>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
  </head>
  <body bgcolor = "#99ff99">
    <h1><u>CSE-A Time Table</u></h1><br>
    <table border = "1" width = "100%" height = "100%">
      <tr>
        <th>DAY</th>
        <th>8:00-9:00</th>
        <th>9:00-10:00</th>
        <th>10:00-11:00</th>
        <th>11:00-12:00</th>
        <th>12:00-1:00</th>
        <th>1:00-2:00</th>
        <th>2:00-3:00</th>
      </tr>
      <tr>
        <th>MON</th>
        <td align = "center" colspan = 3><-WT LAB(ACC)-></td>
        <td align = "center" align = "center" rowspan = 6>LUNCH</td>
        <td align = "center">CS</td>
        <td align = "center">OS</td>
        <td align = "center">WT</td>
      </tr>
      <tr>
        <th>TUE</th>
        <td align = "center">CS</td>
        <td align = "center">E&H</td>
        <td align = "center">WT</td>
        <td align = "center">DBMS</td>
        <td align = "center">SE</td>
        <td align = "center">OS</td>
      </tr>
      <tr>
        <th>WED</th>
        <td align = "center">SE</td>
        <td align = "center">SE</td>
        <td align = "center">WT</td>
        <td align = "center">DBMS</td>
        <td align = "center">CS</td>
        <td align = "center">OS</td>
      </tr>
      <tr>
        <th>THU</th>
        <td align = "center" colspan = 2><-SOC LAB(C111)-></td>

```



```

<td align = "center">DBMS</td>
      <td align = "center" colspan = 3><-DBMS LAB(ACC)-></td>
    </tr>
    <tr>
      <th>FRI</th>
      <td align = "center">SOC</td>
      <td align = "center">OS</td>
      <td align = "center">WT</td>
      <td align = "center">DBMS</td>
      <td align = "center">CS</td>
      <td align = "center">E&H</td>
    </tr>
    <tr>
      <th>SAT</th>
      <td align = "center" colspan = 2><-CC LAB(C111)-></td>
      <td align = "center">SOC</td>
      <td align = "center" colspan = 3><-CS LAB(ACC)-></td>
    </tr>
  </table>
</body>
</html>

```

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6B:

Syllabus Sample	
Unordered List	
Time table	
Layouts	
127.0.0.1:5500/wt1_6u.html	
Name: GNANAVELU REGUVEL Reg No.:Y21CS043	
Infrastructure	
Spread:	37.41 Acres
Builtup Area	
R.C.C:	75504 sq m
Non-R.C.C:	9951 sq m
Hostels	
Boys	19080 sq m
Girls:	10617 sq m
Building details	
Lecture Halls:	94
Drawing Halls:	15
Engineering/science Labs:	71
Computer Centers:	15
A/c Seminar Halls:	04
Amenities	
Auditorium:	01
Open air Theater:	29 buses
Transport Fleet	04

b.Aim: Use tables to provide layout to your HTML page describing your college infrastructure.

```
<html>
  <head>
    <title>6b</title>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
  </head>
  <body bgcolor = "#99ff99">
    <table border = "1">
      <tr bgcolor = "red">
        <td colspan = 2 align="center" width = "1250">
          <font size="5%" color="white">Infrastructure</font>
        </td>
      </tr>
      <tr>
        <td>Spread</td>
        <td>37.41 Acres</td>
      </tr>
      <tr bgcolor = "blue">
        <td colspan = 2 align="center" width = "1250">
          <font size="5%" color="white">Built-up Area</font>
        </td>
      </tr>
      <tr>
        <td>R.C.C</td>
        <td>75504 Sq.m.</td>
      </tr>
      <tr>
        <td>Non R.C.C</td>
        <td>9951 Sq.m.</td>
      </tr>
      <tr bgcolor = "blue">
        <td colspan = 2 align="center" width = "1250">
          <font size="5%" color="white">Hostels</font>
        </td>
      </tr>
      <tr>
        <td>Lecture Halls:</td>
        <td>94</td>
      </tr>
      <tr>
        <td>Drawing Halls:</td>
        <td>15</td>
      </tr>
      <tr>
        <td>Engineering/Science Labs:</td>
        <td>71</td>
      </tr>
      <tr>
        <td>Computer Centres:</td>
```


<td>15</td>

</tr>

<tr>

<td>A/c Seminar Halls:</td>

<td>04</td>

</tr>

<tr bgcolor = "blue">

<td colspan = 2 align="center" width = "1250">

Amenities

</td>

</tr>

<tr>

<td>Auditorium</td>

<td>01</td>

</tr>

<tr>

<td>Open-air Theatre</td>

<td>01</td>

</tr>

<tr>

<td>Transport Fleet</td>

<td>29 buses</td>

</tr>

<tr>

<td>Canteen, Snack bar & Dining Rooms</td>

<td>01</td>

</tr>

<tr>

<td>Mineral Water Plant</td>

<td>01</td>

</tr>

<tr><td>Bank</td><td>01</td></tr>

<tr><td>Play Fields Sports faciles & Gymnasia</td></td>

<tr><td>NCC and NSS Units</td></td>

<tr><td>Hobby Clubs</td></td>

<tr><td>Boys and Girls Common room</td></td>

<tr><td>Rain Water Storage Dam</td></td>

<tr bgcolor = "blue">

<td colspan = 2 align="center" width = "1250">

Library

</td>

</tr>

<tr>Area:<td></td><td>1766 Sq.mt.</td></tr>

<tr><td>Volumes:</td><td>1,04,018</td></tr>

<tr><td>Titles:</td><td>29,165</td></tr>

<tr><td>Journals:</td><td>114</td></tr>

<tr><td>Internet / Intranet access</td></tr>

<tr><td>Computerized Services</td></tr>

<tr><td>INDEST Membership</td></tr>

<tr><td>Qualified Library Staff:</td><td>07</td></tr>

</table></body></html>

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6C:

Syllabus Sample Unordered List Time table Layouts Train Schedule

127.0.0.1:5500/wi1_6c.html

Name: GNANAVELU REGUVEL Reg No.:Y21CS043

Name of the Train	Place	Destination	Train no	Time		Fare
				Arrival	Departure	

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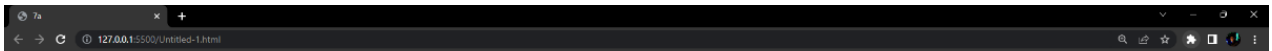
c.Aim: Create a web page in the following table fields.

Name of train	place	Destination	Train No	Time Arrival	Departure	Fare
---------------	-------	-------------	----------	-----------------	-----------	------

```
<html>
  <head>
    <title>6c</title>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
  </head>
  <body bgcolor = "#00ace6">
    <p>My Redg no:Y21CS043</p>
    <table width="100%" border="3px">
      <tr height="10%" >
        <th rowspan="2">Name of the Train</th>
        <th rowspan="2">place</th>
        <th rowspan="2">Destination</th>
        <th rowspan="2">Train no</th>
        <th colspan="2">Time</th>
        <th rowspan="2">Fare</th>
      </tr>
      <tr height="10%">
        <th align = "center">Arrival</th>
        <th align = "center">Departure</th>
      </tr>
      <tr>
        <td align = "center">MUMBAI CENTRAL - AHMEDABAD AC DURONTO EXP</td>
        <td align = "center">MUMBAI</td>
        <td align = "center">AHMEDABAD</td>
        <td align = "center">12267</td>
        <td align = "center">05:55</td>
        <td align = "center">23:25</td>
        <td align = "center">100</td>
      </tr>
      <tr>
        <td align = "center">AHMEDABAD - MUMBAI CENT AC DURONTO EXP</td>
        <td align = "center">AHMEDABAD</td>
        <td align = "center">MUMBAI</td>
        <td align = "center">12268</td>
        <td align = "center">06:00</td>
        <td align = "center">23:40</td>
        <td align = "center">100</td>
      </tr>
      <tr>
        <td align = "center">KOLKATA SEALDAH - PURI DURONTO EXPRESS</td>
        <td align = "center">KOLKATA</td>
        <td align = "center">MPURI</td>
        <td align = "center">22201</td>
        <td align = "center">04:00</td>
        <td align = "center">04:00</td>
        <td align = "center">22:00</td>
        <td align = "center">200</td>
      </tr>
    </table>
  </body>
</html>
```

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7A:



Name: GNANAVELU REGUVEL

Reg.No.: Y21CS043

FRAME1

Name: GNANAVELU REGUVEL

Reg.No.: Y21CS043

FRAME2

7B:



Name: GNANAVELU REGUVEL

Reg.No.: Y21CS043

FRAME1

Name: GNANAVELU REGUVEL

Reg.No.: Y21CS043

FRAME2

Name: GNANAVELU REGUVEL

Reg.No.: Y21CS043

FRAME3

7C:



Name: GNANAVELU REGUVEL

Reg.No.: Y21CS043

FRAME1

Name: GNANAVELU REGUVEL

Reg.No.: Y21CS043

FRAME2

Name: GNANAVELU REGUVEL

Reg.No.: Y21CS043

FRAME3

7.

Regd. No.: Y21CS043

a.Aim: Develop a web page having two frames that divide the Web page into two equal rows.

```
<html>
    <head>
        <title>7a</title>
    </head>
    <frameset rows = "50%,50%">
        <frame name = "top" src = "frame1.html">
        <frame name = "bottom" src = "frame2.html">
    </frameset>
</html>
```

b.Aim: Develop a web page having two frames that divide the Web page into two equal rows and then divide the second row into two equal columns.

```
<html>
    <head>
        <title>7a</title>
    </head>
    <frameset rows = "50%,50%">
        <frame name = "top" src = "frame1.html">
        <frameset cols = "50%,50%">
            <frame name = "left" src = "frame2.html">
            <frame name = "right" src = "frame3.html">
        </frameset>
    </frameset>
</html>
```

c.Aim: Develop a web page having frames as described in the above web page and then fill each frame with a different background colour .

```
<html>
    <head>
        <title>7c</title>
    </head>
    <frameset rows = "50%,50%">
        <frame name = "top" src = "frame1.html">
        <frameset cols = "50%,50%">
            <frame name = "left" src = "frame2.html">
            <frame name = "right" src = "frame3.html">
        </frameset>
    </frameset>
</html>
```

Regd. No.: Y21CS043

8A:

127.0.0.1:5500/Untitled-1.html

Name : GNANAVELU REGUVEL
Reg.no : Y21CS043

BIODATA

Name:

Address:

Age:

Phone:

Email:

Password:

Date of Birth:

Passport size photo: No file chosen

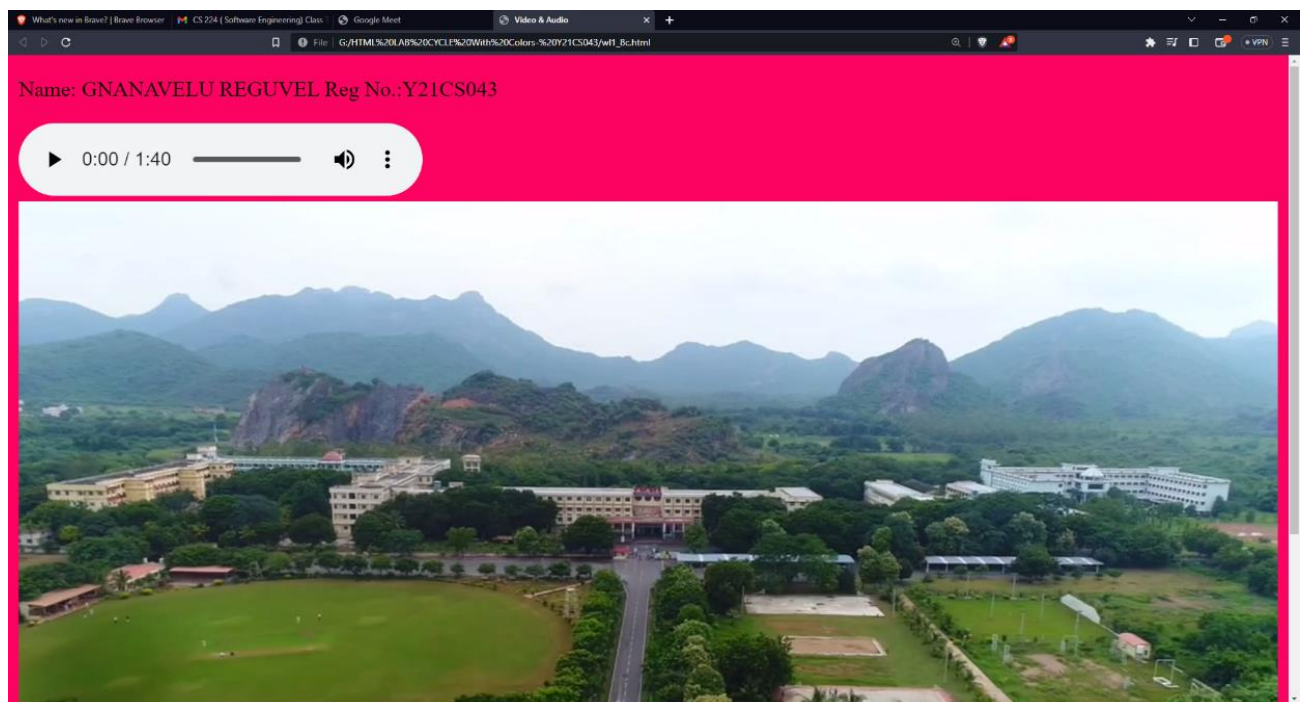
8B:

127.0.0.1:5500/Untitled-1.html

Name : GNANAVELU REGUVEL
Reg.no : Y21CS043

☐ Green
☐ Red
☒ Yellow

8C:



a.Aim: Create your bio-data form on a web page using all input types

```
<html>
  <head>
    <title>8a</title>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
  </head>
  <body bgcolor = "#339933">
    <form action="" method="">
      <h2>BIODATA</h2>
      Name:<input type="text" ><br><br>
      Address:<textarea></textarea><br><br>
      Age:<input type="text"><br><br>
      Phone:<input type="text" ><br><br>
      Email:<input type="text"><br><br>
      Password:<input type="password"><br><br>
      Date of Birth:<input type="date" ><br><br>
      Passport size photo:<input type="file"><br><br>
      <input type="submit" value="SUBMIT">
    </form>
  </body>
</html>
```

b.Aim: Create a web page having radio buttons labeled as name of colours. Clicking on each radio button should change the colour of the Web page

```
<html>
  <head>
    <title>8b</title>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
  </head>
  <body>
    <form>
      <input type="radio" onClick="document.bgColor='green' " >
      Green<br>
      <input type="radio" onClick="document.bgColor='red' " >
      Red<br>
      <input type="radio" onClick="document.bgColor='yellow' " >
      Yellow<br>
    </form>
  </body>
</html>
```

c. Embed Audio and Video into your web page.

```
<html>
  <head>
    <title>8c</title>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
  </head>
  <body bgcolor = "#ff99cc">
    <audio controls autoplay loop>
      <source src="Surviva - SenSongsMp3.Co.mp3">
    </audio>
    <video controls autoplay loop height="100%" width="100%">
      <source src="BUGATTI.mp4">
    </video>
  </body>
</html>
```

9:

Name : GNANAVELU REGUVEL
Reg.no : Y21CS043

CSE-A Time Table

DAY	8:00-9:00	9:00-10:00	10:00-11:00	11:00-12:00	12:00-1:00	1:00-2:00	2:00-3:00
Mon	<-WT LAB(ACC)->			L U N C H	CS	OS	WT
Tue	CS	E&H	WT		DBMS	SE	OS
Wed	SE	SE	WT		DBMS	CS	OS
Thu	<-SOC LAB(C111)->		DBMS		<-DBMS LAB(ACC)->		
Fri	SOC	OS	WT		DBMS	CS	E&H
Sat	<-CC LAB(C111)->		SOC		<-CS LAB(ACC)->		

9.

Aim:

- Create a webpage which displays the class time table and apply the following effects on the table:
- For the table header apply blue as the background colour and white for the colour of the text in the table header.
- Display days in a week (Mon, Tue etc...) in bold format with the first letter in the day name in uppercase.
- Display lunch slightly in bigger font other than the remaining text.

```

<html>
  <head>
    <title>9</title>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
  </head>
  <body bgcolor = "#99ff00">
    <h1><u>CSE-A Time Table</u></h1><br>
    <table border = "1" width = "100%" height = "50%">
      <tr align = "center" bgcolor = "blue" >
        <th ><font color = "white">DAY</font></th>
        <th ><font color = "white">8:00-9:00</font></th>
        <th ><font color = "white">9:00-10:00</font></th>
        <th ><font color = "white">10:00-11:00</font></th>
        <th ><font color = "white">11:00-12:00</font></th>
        <th ><font color = "white">12:00-1:00</font></th>
        <th ><font color = "white">1:00-2:00</font></th>
        <th ><font color = "white">2:00-3:00</font></th>
      </tr>
      <tr align = "center">
        <td ><b>Mon</b></td>
        <td colspan = 3><-WT LAB(ACC)-></td>
        <td rowspan = 6><font size
          = "5%">L<br>U<br>N<br>C<br>H<br></font></td>
        <td >CS</td>
        <td >OS</td>
        <td >WT</td>
      </tr>
      <tr align = "center">
        <td ><b>Tue</b></td>
        <td >CS</td>
        <td >E&H</td>
        <td >WT</td>
        <td >DBMS</td>
        <td >SE</td>
        <td >OS</td>
      </tr>
      <tr align = "center">
        <td ><b>Wed</b></td>
        <td >SE</td>
        <td >SE</td>
        <td >WT</td>
        <td >DBMS</td>
        <td >CS</td>
        <td >OS</td>
      </tr>
      <tr align = "center">
        <td ><b>Thu</b></td>
        <td colspan = 2><-SOC LAB(C111)-></td>
        <td >DBMS</td>
        <td colspan = 3><-DBMS LAB(ACC)-></td>
      </tr>
      <tr align = "center">

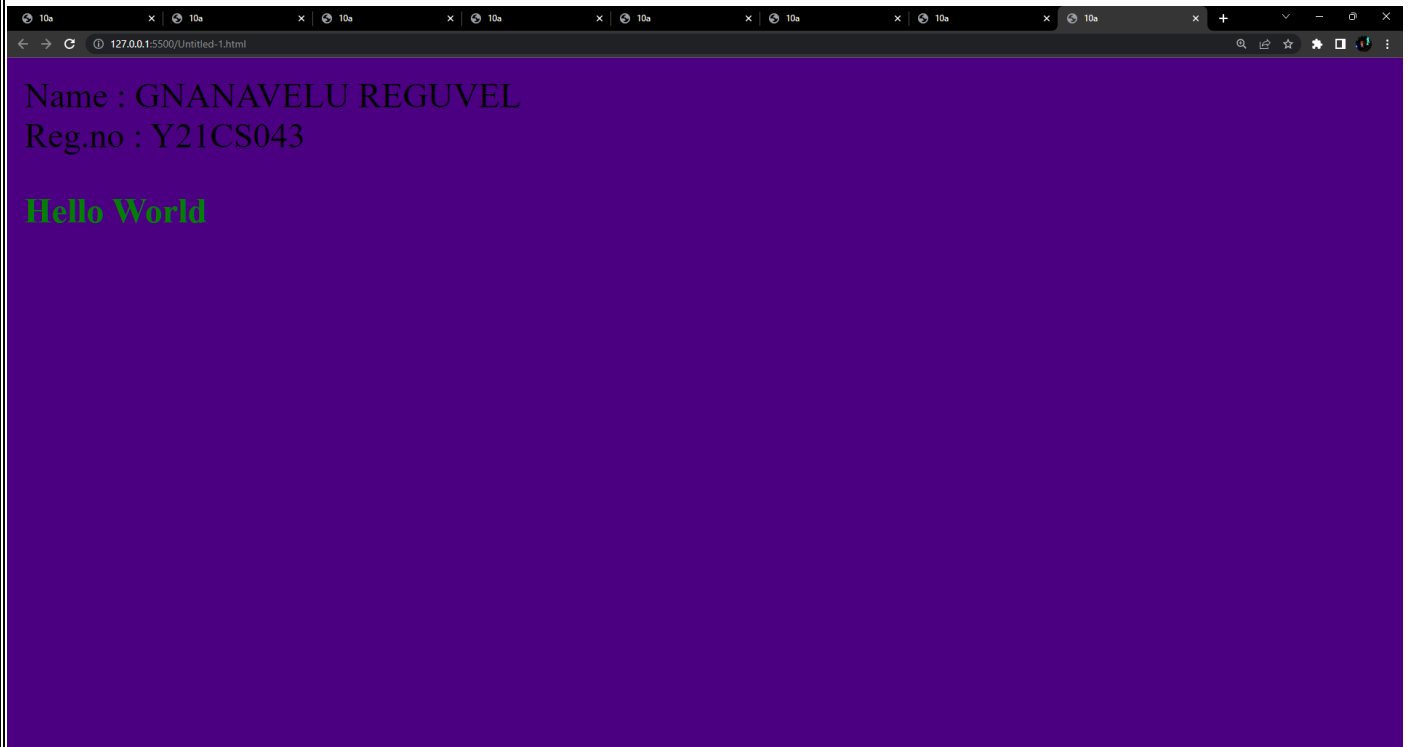
```



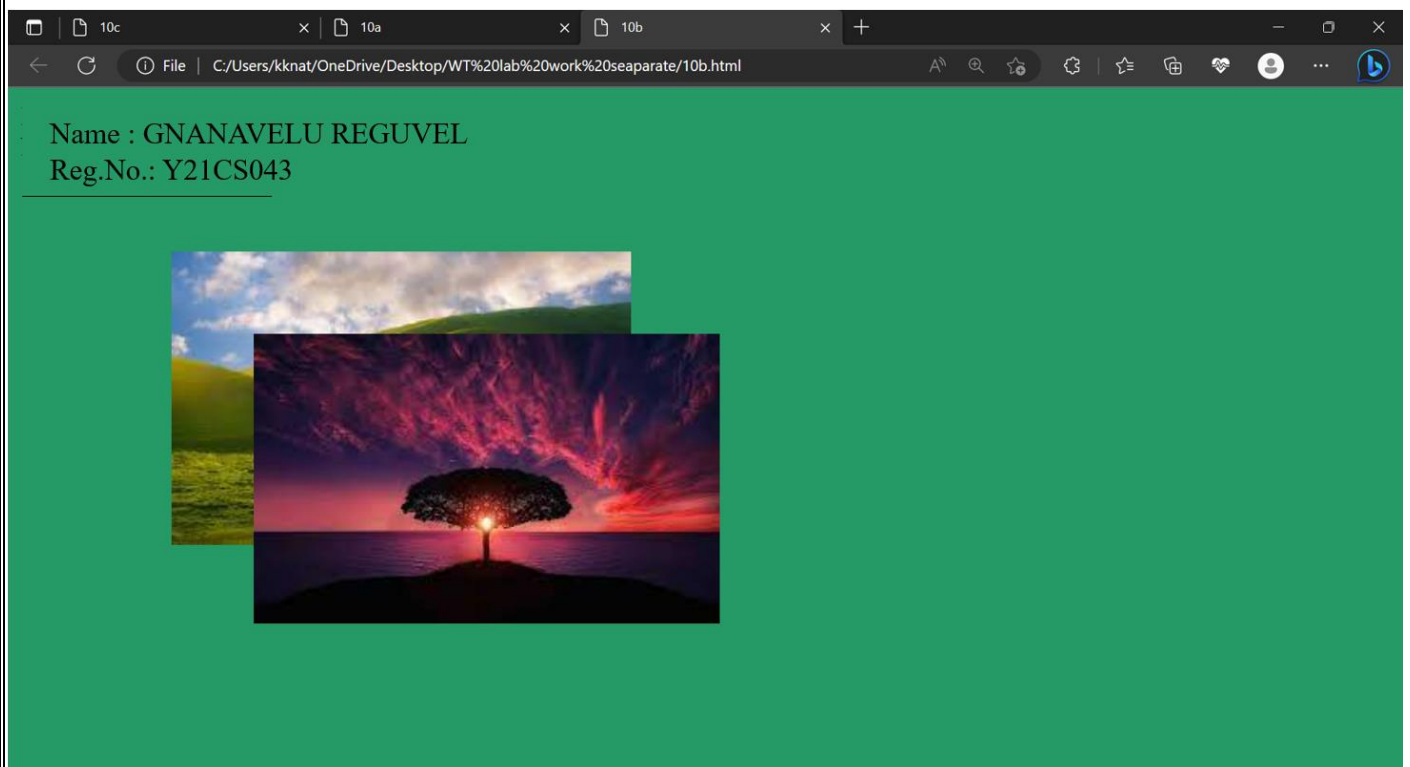
```
<td ><b>Fri</b></td>
                                <td >SOC</td>
                                <td >OS</td>
                                <td >WT</td>
                                <td >DBMS</td>
                                <td >CS</td>
                                <td >E&H</td>
                                </tr>
                                <tr align = "center">
                                <td ><b>Sat</b></td>
                                <td colspan = 2><-CC LAB(C111)-></td>
                                <td >SOC</td>
                                <td colspan = 3><-CS LAB(ACC)-></td>
                                </tr>
                                </table>
                                </body>
</html>
```

Regd. No.: Y21CS043

10A:



10B:



Regd. No.: Y21CS043

10.

a.Aim: Create a webpage which displays "Hello World" with font size 20 pixels, bold format, in "Times New Roman" font and green in colour using inline CSS, embedded CSS and external CSS.

```
<html>
  <head>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
    <title>10a</title>
    <link rel = "stylesheet" href = "design.css">
    <style>
      p
      {
        color:green;
      }
    </style>
  </head>
  <body bgcolor = "indigo">
    <p style = "color:green">
      <b>Hello World</b>
    </p>
  </body>
</html>
```

b.Aim: Create a web page containing two images, where one image overlaps another image by using the z-index CSS property.

```
<html>
  <head>
    <title>10b</title>
    My reg.no : Y21CS043<br>
    Name : GNANAVELU REGUVEL<br>
    <style>
      .image1
      {
        position: absolute;
        top: 100;
        left: 100;
        z-index: 1;
      }

      .image2
      {
        position: absolute;
        top: 150px;
        left: 150px;
        z-index: 2;
      }
    </style>
  </head>
  <body bgcolor = "#259966">
    <img src = "img1.jpg" class = "image1"><img src = "img2.jpg" class = "image2">
  </body>
</html>
```

Regd. No.: Y21CS043

10C:



Regd. No.: Y21CS043

c.Aim: Demonstrate the usage of CSS Inheritance and Specificity with an example.

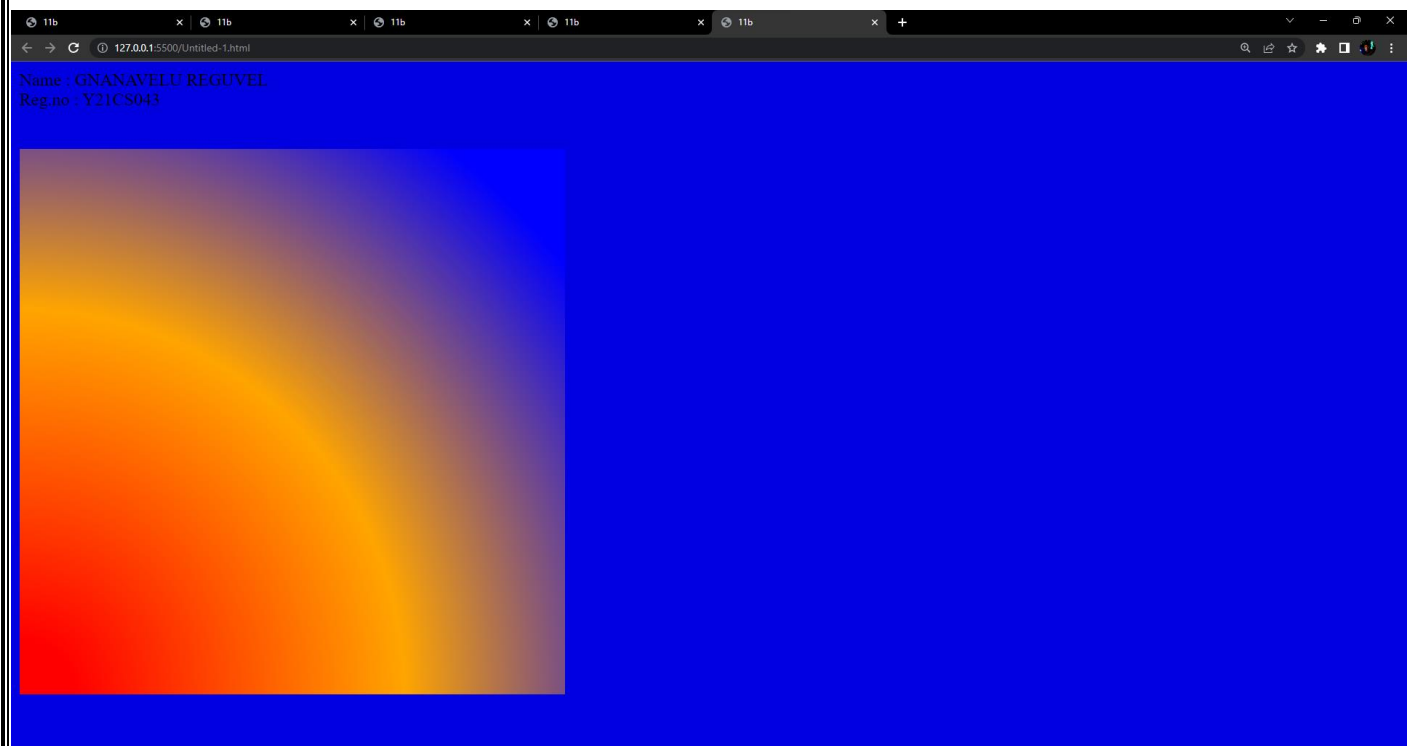
```
<html>
  <head>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
    <title>10c</title>
    <style>
      knn{
        color:yellow;
        border:2px solid black;
      }
      .extra knn{
        color:inherit;
      }
    </style>
  </head>
  <body bgcolor="orange">
    <br>
    <div>
      <kkn>HTML :</kkn> Hyper Text Markup Language
    </div>
    <br>
    <div class="extra" style="color:blue;">
      Cascading Style Sheets <kkn>~>CSS</kkn>
    </div>
    <br>
    <div style="color:red;">
      javascript <kkn>Web Technology</kkn>
    </div>
  </body>
</html>
```

Regd. No.: Y21CS043

11A:



11B:



11.

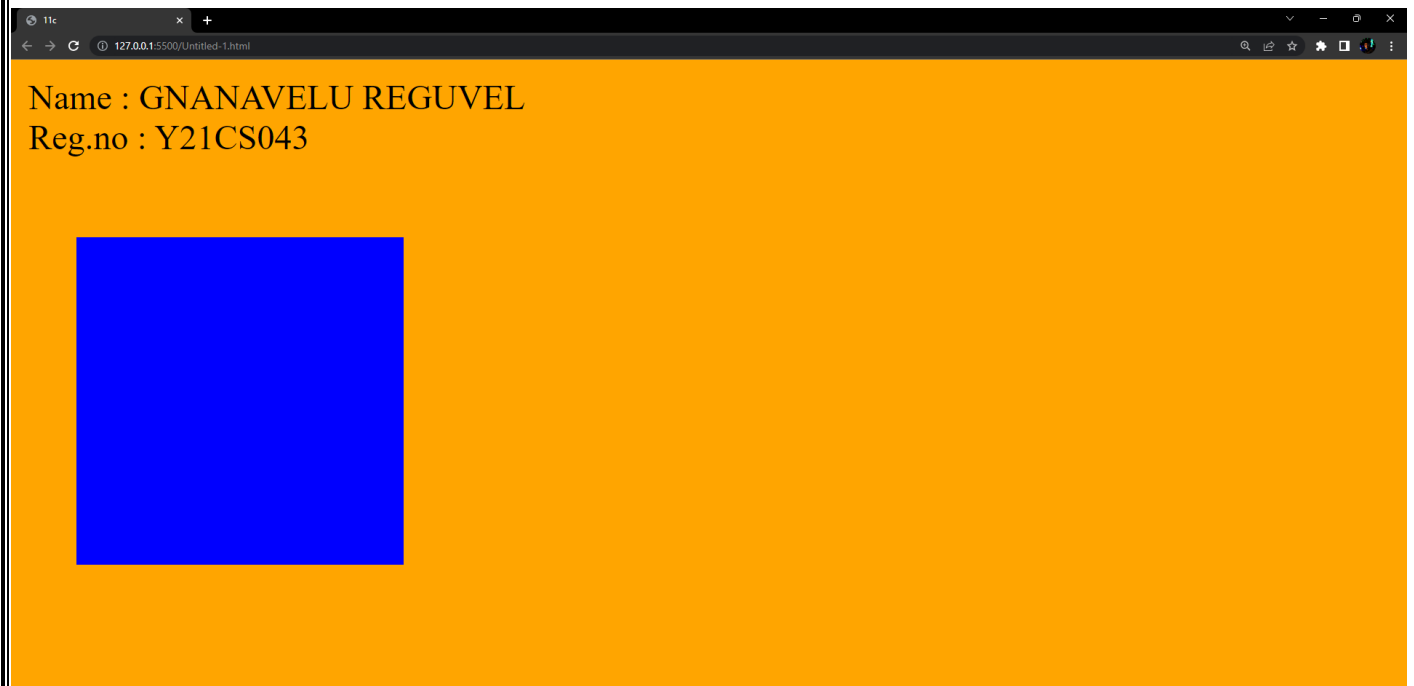
a.Aim: Create a div element with a width and height of 500px. Create a diagonal linear gradient using the colors of the rainbow—Red, Orange, Yellow, Green, Blue, Indigo, Violet. (Linear Gradient)

```
<html>
  <head>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
    <title>11a</title>
    <style>
      #para1
      {
        height:500px;
        width:500px;
        background-image:linear-gradient(to bottom
right,red,orange,green,yellow,indigo,blue,violet);
      }
    </style>
  </head>
  <body bgcolor="skypink">
    <br>
    <div id="para1"></div>
  </body>
</html>
```

b.Aim: Create a div element with a width and height of 500px. Create a radial gradient with three colors. Start the gradient in the bottom-left corner with the colors changing as they move along the gradient line to the right. (Radial Gradient)

```
<html>
  <head>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
    <title>11b</title>
    <style>
      #para1
      {
        height:500px;
        width:500px;
        background-color:black;
        background-image:radial-gradient(at 0% 100%,red 50px,orange 50%,blue 90%);
      }
    </style>
  </head>
  <body bgcolor="lightpurple">
    <br><br><div id="para1"></div>
  </body>
</html>
```

Regd. No.: Y21CS043
11C:

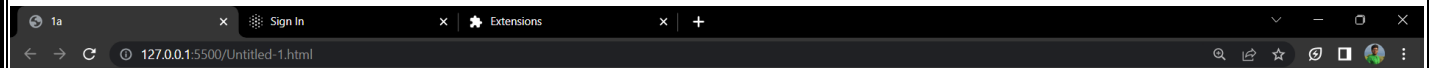


Regd. No.: Y21CS043

c.Aim: Create an infinite animation of an element moving in a square pattern. (Animation)

```
<html>
  <head>
    Name : GNANAVELU REGUVEL<br>
    Reg.no : Y21CS043<br>
    <title>11c</title>
    <style>
      div
      {
        width:150px;
        height:150px;
        background:blue;
        position:relative;
        animation:kkn 10s infinite;
      }
      @keyframes kkn
      {
        from {left:0px;}
        to {left:200px;}
      }
    </style>
  </head>
  <body bgcolor="orange">
    <br><br><div></div>
  </body>
</html>
```

1A:



Name:G Reguvel

Enter the year :

2004

Check Leap Year

2004 is a leap year.

1B:



Name:G Reguvel

Enter the numbers :

22

223

1007

Check Largest Number

Largest Number=1007

LAB CYCLE –II
JAVA SCRIPT

1. Write a java scripts to

a) Aim: find the given year is leap year or not

```

<html>
<head>
  Name:G Reguvel<br>
  <title>1a</title>
</head>

<body>
  <script>
    function isLeapYear()
    {
      let y = document.getElementById("year").value;
      if(y == "")
        document.getElementById("display").innerHTML = "Enter the year to compute."
      else if ((y%4==0) && ((y%400==0) || (y%100!=0)))
        document.getElementById("display").innerHTML = y+" is a leap year.";
      else
        document.getElementById("display").innerHTML = y + " is not a leap year.";
    }
  </script>
  <label><b>Enter the year : </b></label><br>
  <input type="text" id = "year"><br><br>
  <button onclick="isLeapYear()">Check Leap Year</button>
  <p id="display"></p>
  <p id = "ui"></p>
</body>
</html>

```

b) Aim: compute the biggest of three numbers

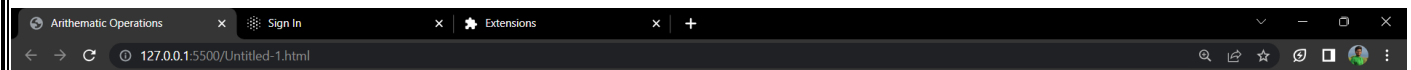
```

<html>
<head>
  Name:G Reguvel<br>
  <title>1a</title>
</head>
<body>
  <script>
    function isLarge()
    {
      let a = parseInt(document.getElementById("1").value);
      let b = parseInt(document.getElementById("2").value);
      let c = parseInt(document.getElementById("3").value);
      let l=0;
      l=((a>b)&&(a>c))?a:(b>c)?b:c;
      document.getElementById("display").innerHTML = "Largest Number="+l;
    }
  </script>
  <label><b>Enter the numbers : </b></label><br>
  <input type="text" id = "1"><br><br>
  <input type="text" id = "2"><br><br>
  <input type="text" id = "3"><br><br>
  <button onclick="isLarge()">Check Largest Number</button>
  <p id="display"></p>
</body>
</html>

```

Regd. No.: Y21CS043

1C:



Name:G Reguvel

Enter the numbers:

Enter the operator:

Arithmetic Operation

7/43=0.16279069767441862

```

<html>
<head>
  Name:G Reguvel<br>
  <title>Arithematic Operations</title>
</head>
<body>
  <script>
    function ap()
    {
      let a = document.getElementById("1").value;
      let b = document.getElementById("2").value;
      let c = document.getElementById("3").value;
      let l=0;
      switch (c) {
        case '+':
          l = a-(-1)*b;
          break;
        case '-':
          l = a-b;
          break;
        case '*':
          l = a*b;
          break;
        case '/':
          l = a/b;
          break;
        case '%':
          l = a%b;
          break;
        case '**':
          l = a**b;
          break;
        case '++':
          l = a+1;
          break;
        case '--':
          l = --a;
          break;
        default:
          l='='
      }
      if(c=='++' || c=='--')
        document.getElementById("display").innerHTML = c+""+a+"="+l;
      else if(l=='=')
        document.getElementById("display").innerHTML = "Invalid Option";
      else
        document.getElementById("display").innerHTML = a+""+c+""+b+"="+l;
    }
  </script>
  <label><b>Enter the numbers: </b></label><br>
  <input type="text" id = "1"><br><br>
  <input type="text" id = "2"><br><br>
  <label><b>Enter the operator: </b></label><br>
  <input type="text" id = "3"><br><br>
  <button onclick="ap()">Arithmetic Operation</button>
  <p id="display"></p></body>
</html>

```

Regd. No.: Y21CS043

2A:



Name:G Reguvel

Regd. No.:Y21CS043

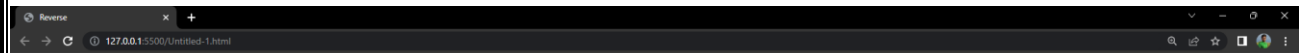
Enter the number:

77234

Printing sum of digits of the number

23

2B:



Name:G Reguvel

Regd. No.:Y21CS043

Enter the number:

400277

Printing reverse number

772004

2C:



Name:G Reguvel

Regd. No.:Y21CS043

The first ten natural numbers except 5:

1
2
3
4
6
7
8
9
10

Regd. No.: Y21CS043

2. Write a java script to

a) Aim: calculate the sum of the digits of a give number

```
<html>
<head>
  Name:G Reguvel <br>
  Regd. No.:Y21CS024<br>
  <title>Sum Of Digits</title></head>
<body>
<script>
function sum() {
  let n= document.getElementById("year").value;
  let s = 0;
  let d;
  for (let i = n; i>0; i=(i-d)/10) {
    d=i%10;
    s+=d;}
  document.getElementById("ui").innerHTML=s;}</script>
<label><b>Enter the number: </b></label><br>
<input type="text" id = "year"><br><br>
<button onclick="sum()">Printing sum of digits of the number</button>
<p id = "ui"></p>
</body></html>
```

b) Aim: reverse of a given number

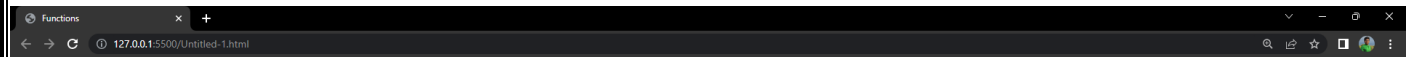
```
<html>
<head>
  Name:G Reguvel<br>
  Regd. No.:Y21CS043<br>
  <title>Reverse</title></head>
<body>
<script>
  function rev() {
    let n= document.getElementById("year").value;
    let s = 0;
    let d=0;
    let c=0;
    for (let i = n; i>0; i=(i-d)/10) {
      d=i%10;
      s=10*s+d;}
    document.getElementById("ui").innerHTML=s;}
</script>
<label><b>Enter the number: </b></label><br>
<input type="text" id = "year"><br><br>
<button onclick="rev()">Printing reverse number</button>
<p id = "ui"></p>
</body>
</html>
```

c) Aim: print the first 10 natural numbers except 5

```
<html>
<head>
  Name:G Reguvel<br>
  Regd. No.:Y21CS043<br>
  <title>First 10 Natural Numbers</title>
</head>
<body>
<script>
  document.write("The first ten natural numbers except 5:<br>");
  for (let i = 1; i<=10; i++) {
    if(i!=5) {
      document.write(i);
      document.write("<br>");
    }
  }
</script></body>
</html>
```

Regd. No.: Y21CS043

3A:



Name:G Reguvel
Regd. No.:Y21CS043

Enter the number:

22

Enter the second number for GCD:

44

calucate GCD

calucate reverse

random number

GCD=22

Reverse of 22=22

Random Number=2

3B:



Name:G Reguvel
Regd. No.:Y21CS043

Enter the number:

12

Enter the exponent for caluclating the power:

33

calucate factorial

calucate fibonacci number

calucate power

Factorial of 12 is 479001600

12th fibonacci number is 233

$12^{33} = 4.101862702460022e+35$

Regd. No.: Y21CS043

3. Write a java script to

a) Aim: functions (GCD, reverse, random numbers)

```
<html>
<head>
  Name:G Reguvel<br>
  Regd. No.:Y21CS043<br>
  <title>Functions</title></head>
<body>
  <script>
    function GCD() {
      let n1= document.getElementById("a").value;
      let n2= document.getElementById("b").value;
      function findGCD(n1,n2) {
        return (n1 == 0) ? n2 : findGCD(n2%n1,n1);
      }
      document.getElementById("1").innerHTML="GCD="+findGCD(n1,n2);}
    function reverse() {
      let n = parseInt(document.getElementById("a").value);
      let s = 0;
      let d=0;
      let c=0;
      for (let i = n; i>0; i=(i-d)/10) {
        d=i%10; s=10*s+d;}
      document.getElementById("2").innerHTML="Reverse of "+n+"="+s;}
    function randNum() {
      document.getElementById("3").innerHTML="Random Number="+Math.floor(Math.random() * 101);} </script>
    <label><b>Enter the number: </b></label><br>
    <input type="text" id = "a"><br><br>
    <label><b>Enter the second number for GCD: </b></label><br>
    <input type="text" id = "b"><br><br>
    <button onclick="GCD()">caluclate GCD</button>
    <button onclick="reverse()">caluclate reverse</button>
    <button onclick="randNum()">random number</button>
    <p id="1"></p><p id="2"></p>
    <p id="3"></p></body>
</html>
```

b) Aim: recursive function(factorial, Fibonacci , power)

```
<html>
<head>
  Name:G Reguvel <br>Regd. No.:Y21CS043<br>
  <title>Recursive Functions</title></head>
<body>
  <script>
    function fact() {
      i = n = parseInt(document.getElementById("number").value);f = 1;
      function factorial(i) {
        return (i==1)?1:i*factorial(i-1);}
      document.getElementById("1").innerHTML="Factorial of "+n+" is "+factorial(i); }
    function fib() {
      i = n = parseInt(document.getElementById("number").value);
      function fibonacci(i) {
        return (i==0 || i==1)?1:fibonacci(i-1)+fibonacci(i-2);}
      document.getElementById("2").innerHTML=n+"th fibonacci number is "+fibonacci(i);}
    function pow() {
      a = parseInt(document.getElementById("number").value);
      b = parseInt(document.getElementById("b").value);
      function power(a,b) {
        return (a==0)?0:((b==0)?1:a*power(a,b-1));}
      document.getElementById("3").innerHTML=a+"^"+b+" = "+power(a,b); } </script>
    <label><b>Enter the number: </b></label><br><input type="text" id = "number"><br><br>
    <label><b>Enter the exponent for caluclating the power: </b></label><br>
    <input type="text" id = "b"><br><br>
    <button onclick="fact()">calulate factorial </button>
    <button onclick="fib()">calulate fibonacci number </button>
    <button onclick="pow()">calulate power</button>
    <p id = "1"></p><p id = "2"></p>
    <p id = "3"></p></body>
</html>
```

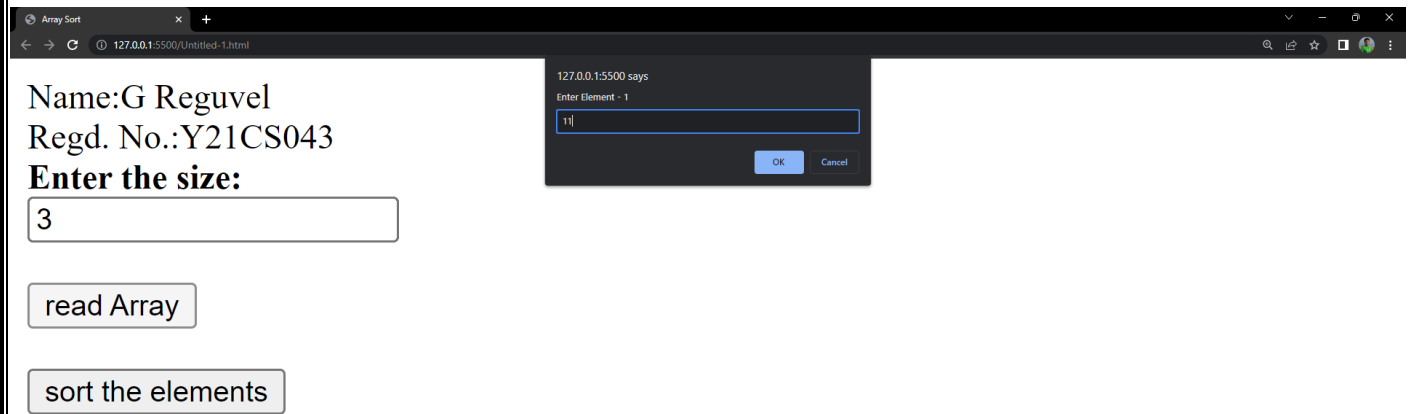

Regd. No.: Y21CS043

c) Aim: image generator

```
<head>
  <title> Image Generator</title> <style>
    * {
      margin: 0%;
      padding: 0%;
      box-sizing: border-box;
      font-family: Arial, Helvetica, sans-serif;}
body {
  background: rgba(120, 16, 180, 0.767);
  height: 100%;
  background-position: center;
  background-repeat: no-repeat;
  background-size: cover;}
.container {
  margin: 1.5vh 20vw;
  margin-top: 10vh;
  text-align: center;
  background: rgb(39, 188, 209);
  background: linear-gradient(118deg,
    rgba(39, 188, 209, 0.9783263647255778) 0%,
    rgba(6, 14, 101, 1) 100%);
  opacity: 0.9;
  color: white;
  padding: 10px 10vw;
  border-radius: 20px;
  min-height: 15vh;}
h1 {
  text-transform: uppercase;}
section {
  height: 1000px;
  width: 1000px;
  margin-top: 50px;
  background-position: center;
  background-repeat: no-repeat;}
img { width:"50px";
      height:"60px";}
</style></head>
<body>
  <div>
    <br>
    <br><br><br>
    <section></section> <br> </div>
  <script>
    const pics = [
      'url("http://127.0.0.1:3000/c:/Users/exam2/Desktop/New%20folder%20(2)/1.jpeg")',
      'url("http://127.0.0.1:3000/c:/Users/exam2/Desktop/New%20folder%20(2)/2.jpeg")',
      'url("http://127.0.0.1:3000/c:/Users/exam2/Desktop/New%20folder%20(2)/3.jpeg")',
      'url("http://127.0.0.1:3000/c:/Users/exam2/Desktop/New%20folder%20(2)/4.jpeg")',
      'url("http://127.0.0.1:3000/c:/Users/exam2/Desktop/New%20folder%20(2)/5.jpeg")',
      'url("http://127.0.0.1:3000/c:/Users/exam2/Desktop/New%20folder%20(2)/6.jpeg")',
      'url("http://127.0.0.1:3000/c:/Users/exam2/Desktop/New%20folder%20(2)/7.jpeg")',
      'url("http://127.0.0.1:3000/c:/Users/exam2/Desktop/New%20folder%20(2)/8.jpeg")',
      'url("http://127.0.0.1:3000/c:/Users/exam2/Desktop/New%20folder%20(2)/9.jpeg")',
      'url("http://127.0.0.1:3000/c:/Users/exam2/Desktop/New%20folder%20(2)/10.jpeg")',
    ];
    const pic = document.querySelector('section');
    function showImage() {
      var a = Math.floor(Math.random() * pics.length);
      var img = pics[a];
      pic.style.backgroundImage = img;
      setInterval(showImage, 1000 );
    }
  </script></body>
</html>
```

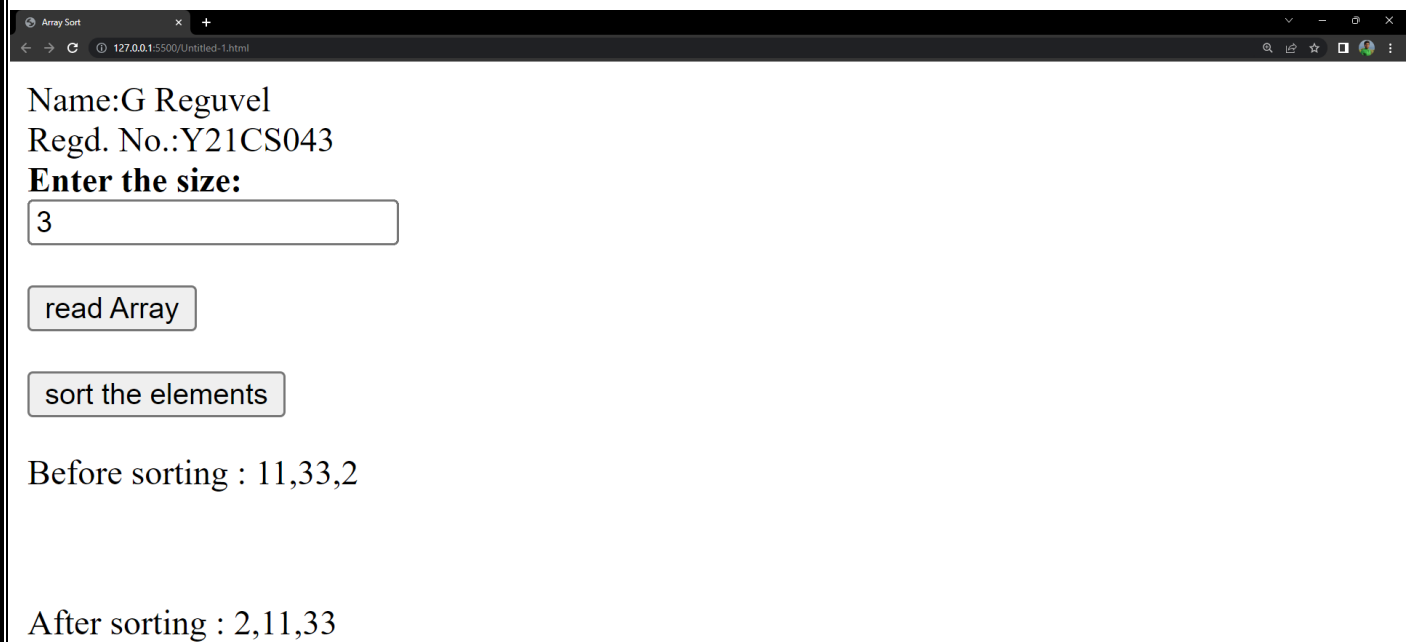
Regd. No.: Y21CS043

4A:



The screenshot shows a web browser window titled 'Array Sort'. The address bar shows '127.0.0.1:5500/Untitled-1.html'. The page content includes:
Name:G Reguvel
Regd. No.:Y21CS043
Enter the size:

A modal dialog box is open, titled '127.0.0.1:5500 says', with the text 'Enter Element - 1' and an input field containing '1'. It has 'OK' and 'Cancel' buttons.

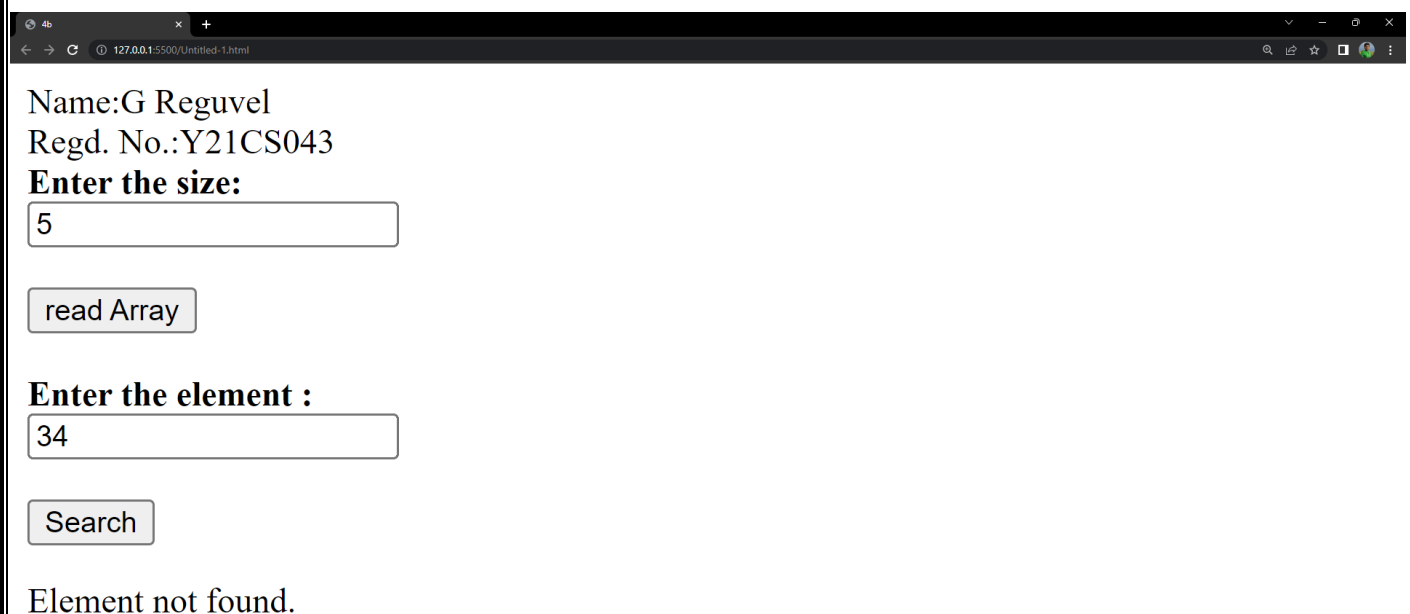


The screenshot shows the same web browser window. The page content is:
Name:G Reguvel
Regd. No.:Y21CS043
Enter the size:

Before sorting : 11,33,2

After sorting : 2,11,33

4B:



The screenshot shows a web browser window titled '4b'. The address bar shows '127.0.0.1:5500/Untitled-1.html'. The page content includes:
Name:G Reguvel
Regd. No.:Y21CS043
Enter the size:

Enter the element :

Element not found.

Regd. No.: Y21CS043

4. Write a java script to

a) Aim: sort the array element using bubble sort technique

```
<html>
<head>
  Name:G Reguvel<br>
  Regd. No.:Y21CS043<br>
  <title>Array Sort</title></head>
<body>
  <script>
    let n;
    let a = []
    function bubbleSort() {
      let t;
      for(i=0;i<n-1;i++){
        for(j=0;j<n-1;j++){
          if(a[j]>a[j+1]){
            t = a[j]
            a[j] = a[j+1]
            a[j+1] = t;}}
      document.getElementById("x").innerHTML = "After sorting : \n"+a;}
    function readArray() {
      n = parseInt(document.getElementById("size").value);
      for(i=0;i<n;i++){
        a[i] = parseInt(prompt('Enter Element - ' + (i+1)));
        document.getElementById("result").innerHTML = "Before sorting : \n"+a;} </script>
    <label><b>Enter the size: </b></label><br>
    <input type="text" id = "size"><br><br>
    <button onclick="readArray()">read Array</button><br><br>
    <button onclick="bubbleSort()">sort the elements</button>
    <p id = "result"></p><br>
    <p id = "x"></p><br></body>
</html>
```

b) Aim: search a given element in the given set of given elements using binary search technique.

```
<html>
<head>
  Name:G Reguvel<br>Regd. No.:Y21CS043<br>
  <title>4b</title></head>
<body>
  <script>
    let n;let a = [];
    function binarySearch() {
      let low = 0,high = a.length-1,x = parseInt(document.getElementById("element").value)
      while(low<=high) {
        mid = Math.floor((low+high)/2)
        if(x == a[mid])
          break
        else if(x < a[mid])
          high = mid-1
        else
          low = mid+1}
      if(low>high)
        document.getElementById("result").innerHTML = "Element not found."
      else
        document.getElementById("result").innerHTML = "element is found at position-"+(mid+1)+"."}
    function readArray() {
      n = parseInt(document.getElementById("size").value);
      for(i=0;i<n;i++){
        a[i] = parseInt(prompt('Enter Element - ' + (i+1)));}} </script>
    <label><b>Enter the size: </b></label><br>
    <input type="text" id = "size"><br><br>
    <button onclick="readArray()">read Array</button><br><br>
    <b>Enter the element : </b><br>
    <input type="text" id = "element"><br><br>
    <button onclick="binarySearch()">Search</button>
    <p id = "result"></p><br></body>
</html>
```

Regd. No.: Y21CS043

4C:

Name:G Reguvel			
Regd. No.:Y21CS043			
Matrix-1		Matrix-2	
Enter the no. of rows :	<input type="text" value="2"/>	Enter the no. of rows :	<input type="text" value="3"/>
Enter the no. of columns :	<input type="text" value="3"/>	Enter the no. of columns :	<input type="text" value="3"/>
<div>Read</div> <div>1 2 3</div> <div>4 5 6</div>		<div>Read</div> <div>12 23 34</div> <div>45 56 67</div>	
		Addition is not possible.	
		89 90 9	
		369 .405 .195	

807 .912 .525

Name:G Reguvel			
Regd. No.:Y21CS043			
Matrix-1		Matrix-2	
Enter the no. of rows :	<input type="text" value="2"/>	Enter the no. of rows :	<input type="text" value="2"/>
Enter the no. of columns :	<input type="text" value="2"/>	Enter the no. of columns :	<input type="text" value="2"/>
<div>Read</div> <div>1 2</div> <div>3 4</div>		<div>Read</div> <div>23 34</div> <div>45 56</div>	
		24 36	
		113 .146 .	
		249 .326 .	

Regd. No.: Y21CS043

c) Aim: compute

i) addition of two matrices

ii) multiplication of two matrices

```
<html>
  <head>
    Name:G Reguvel<br>
    Regd. No.:Y21CS043<br>
    <title>4c-1</title>
  </head>
  <body>
    <style>
      *
      {
        text-align: center;
      }
      button
      {
        width:100px;
        height: 35;
      }
    </style>
    <script>
      let A = [],B = []
      function read(X,d) {
        X.length = 0
        m = parseInt(document.getElementById('r'+d).value);
        n = parseInt(document.getElementById('c'+d).value);
        for(i=0;i<m;i++)
        {
          X[i] = []
          for(j=0;j<n;j++)
            X[i][j] = parseInt(prompt('Enter Element'));
        }
      }
      function display(X,d)
      {
        x = ""
        for(i=0;i<X.length;i++)
        {
          for(j=0;j<X[i].length;j++)
            x += X[i][j].toString()+" "
          x+="<br><br>"
        }
        document.getElementById("display"+d).innerHTML = x
      }
      function addition()
      {
        if(A.length == B.length && A[0].length == B[0].length)
        {
          x = ""
          for(i=0;i<A.length;i++)
          {
            for(j=0;j<A[i].length;j++)
              x += (A[i][j]+B[i][j]).toString()+" "
            x+="<br><br>"
          }
          document.getElementById("addition").innerHTML = x
        }
        else
          document.getElementById("addition").innerHTML = "Addition is not possible."
      }
    </script>
  </body>
</html>
```



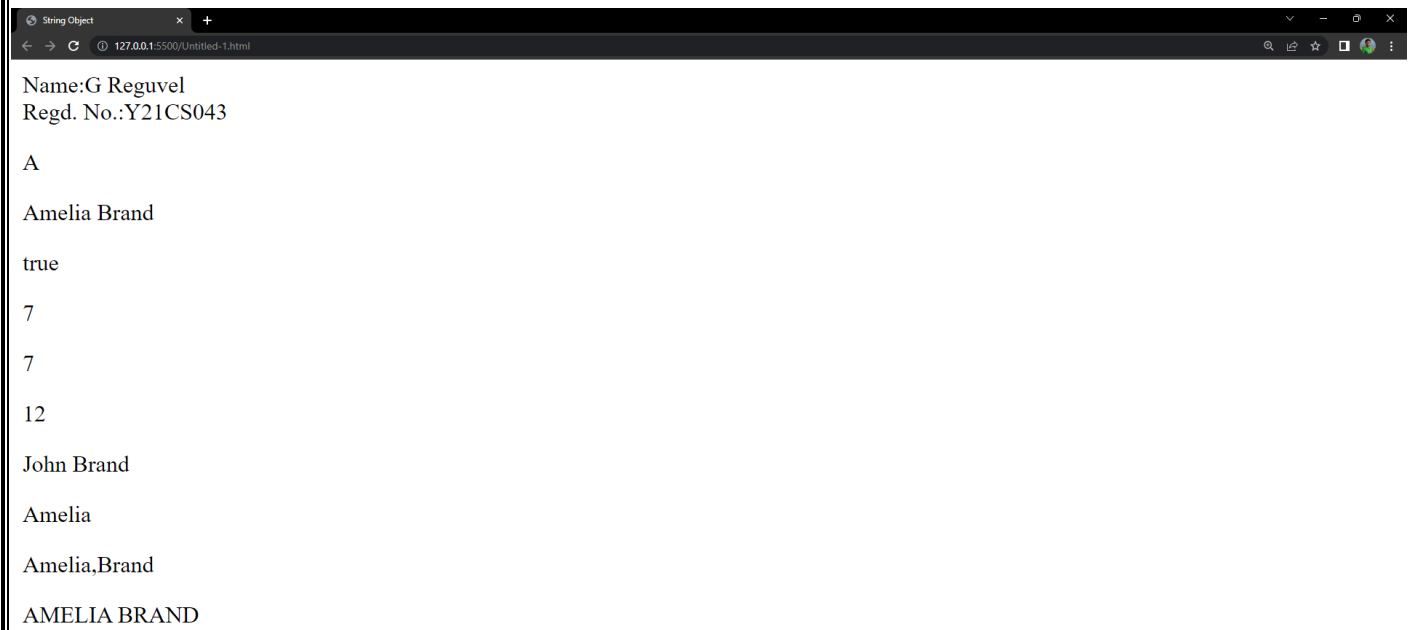
```

function multiplication()
{
    if(A[0].length == B.length)
    {
        x = ""
        for(i=0;i<A.length;i++)
        {
            for(j=0;j<B[0].length;j++)
            {
                s=0;
                for(k=0;k<B.length;k++)
                    s=s+A[i][k]*B[k][j];
                x += (s).toString()+" ."
            }
            x+="<br><br>"
        }
        document.getElementById("multiplication").innerHTML = x
    }
    else
        document.getElementById("multiplication").innerHTML = "Multiplication is not possible."
}
</script>
<table border="1" width="100%" height="50%" >
<tr>
<th colspan="2">Matrix- 1</th>
<th colspan="2">Matrix- 2</th>
</tr>
<tr>
<th>Enter the no. of rows : </th>
<td><input type="text" id="r1"></td>
<th>Enter the no. of rows : </th>
<td><input type="text" id="r2"></td>
</tr>
<tr>
<th>Enter the no. of columns : </th>
<td><input type="text" id="c1"></td>
<th>Enter the no. of columns : </th>
<td><input type="text" id="c2"></td>
</tr>
<tr>
<td colspan="2">
<button onclick = "read(A,'1')">Read</button><br>
<button id = "display1" class = "button button1" onclick = "display(A,'1')">Display</button>
</td>
<td colspan="2">
<button onclick = "read(B,'2')">Read</button><br>
<button id = "display2" class = "button button2" onclick = "display(B,'2')">Display</button>
</td>
</tr>
<tr>
<td colspan="4">
<button id="addition" onclick="addition()">Addition</button><br>
</td>
</tr>
<tr>
<td colspan="4">
<button id="multiplication" onclick="multiplication()">Multiplication</button><br>
</td>
</tr>
</table>
</body>
</html>

```

Regd. No.: Y21CS043

5A:



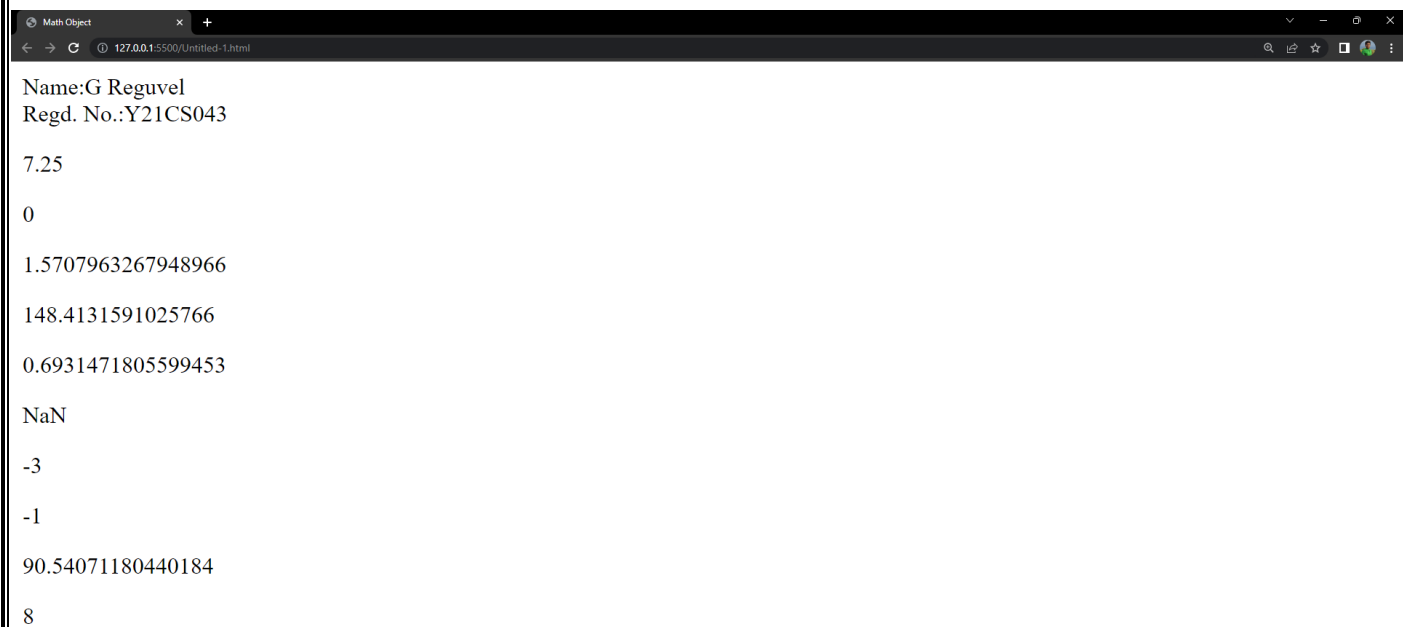
5. Write a java script to

a) Aim: implement string operations using String object

```
<html>
  <head>
    Name:G Reguvel<br>
    Regd. No.:Y21CS043<br>
    <title>String Object</title></head>
  <body>
    <p id="1"></p>
    <p id="2"></p>
    <p id="3"></p>
    <p id="4"></p>
    <p id="5"></p>
    <p id="6"></p>
    <p id="7"></p>
    <p id="8"></p>
    <p id="9"></p>
    <p id="0"></p>
    <script>
      let s1="Amelia ";
      let s2="Brand";
      let l1 = s1.charAt(0);
      let l2 = s1.concat(s2);
      let l3 = l2.endsWith("Brand");
      let l4 = l2.indexOf("Brand");
      let l5 = l2.lastIndexOf("Brand");
      let l=l2.length;
      let l6 = l2.replace("Amelia", "John");
      let l7 = l2.slice(0, 7);
      const my = l2.split(" ");
      let l8 = l2.toUpperCase();
      document.getElementById("1").innerHTML = l1;
      document.getElementById("2").innerHTML = l2;
      document.getElementById("3").innerHTML = l3;
      document.getElementById("4").innerHTML = l4;
      document.getElementById("5").innerHTML = l5;
      document.getElementById("6").innerHTML = l;
      document.getElementById("7").innerHTML = l6;
      document.getElementById("8").innerHTML = l7;
      document.getElementById("9").innerHTML = my;
      document.getElementById("0").innerHTML = l8;</script>
    </body>
  </html>
```

Regd. No.: Y21CS043

5B:



A screenshot of a web browser window with the title 'Math Object'. The address bar shows '127.0.0.1:5500/Untitled-1.html'. The page content displays a list of values: Name:G Reguvel, Regd. No.:Y21CS043, 7.25, 0, 1.5707963267948966, 148.4131591025766, 0.6931471805599453, NaN, -3, -1, 90.54071180440184, and 8.

Name:G Reguvel
Regd. No.:Y21CS043
7.25
0
1.5707963267948966
148.4131591025766
0.6931471805599453
NaN
-3
-1
90.54071180440184
8

5C:



A screenshot of a web browser window with the title 'Date Object'. The address bar shows '127.0.0.1:5500/Untitled-1.html'. The page content displays the text 'Name:G Reguvel' and 'Regd. No.:Y21CS043' followed by a large 'Good Morning' message.

Name:G Reguvel
Regd. No.:Y21CS043
Good Morning

Regd. No.: Y21CS043


b) Aim: implement the mathematical operations using Math object

```
<html>
<head>
  Name:G Reguvel<br>
  Regd. No.:Y21CS043<br>
  <title>Math Object</title></head>
<body>
  <p id="1"></p>
  <p id="2"></p>
  <p id="3"></p>
  <p id="4"></p>
  <p id="5"></p>
  <p id="6"></p>
  <p id="7"></p>
  <p id="8"></p>
  <p id="9"></p>
  <p id="0"></p>
  <script>
    let m1=11;
    let m2=-324;
    let l1 = Math.abs(-7.25);
    let l2 = Math.acosh(1);
    let l3 = Math.asin(1);
    let l4 = Math.exp(5);
    let l5 = Math.log(2);
    let l=Math.sqrt(-9);
    let l6 = Math.round(-2.60);
    let l7 = Math.sign(-68);
    const my = Math.random() * 100;
    let l8 = Math.trunc(8.76);
    document.getElementById("1").innerHTML = l1;
    document.getElementById("2").innerHTML = l2;
    document.getElementById("3").innerHTML = l3;
    document.getElementById("4").innerHTML = l4;
    document.getElementById("5").innerHTML = l5;
    document.getElementById("6").innerHTML = l;
    document.getElementById("7").innerHTML = l6;
    document.getElementById("8").innerHTML = l7;
    document.getElementById("9").innerHTML = my;
    document.getElementById("0").innerHTML = l8;
  </script>
</body>
</html>
```

c) Aim: display Greeting messages using Date object

```
<html>
<head>
  Name:G Reguvel<br>
  Regd. No.:Y21CS043<br>
  <title>Date Object</title>
</head>
<body>
  <b><p id="g" style="text-align: center;font-size: 40px"></p></b>
  <script>
    var greet = ['Good Night','Good Morning','Good Afternoon','Good Evening']
    const d = new Date();
    var i=parseInt(d.getHours() / 24 * 4)
    document.getElementById("g").innerHTML =greet[i];
  </script>
</body>
</html>
```

Regd. No.: Y21CS043
6A:



Collection Objects Demo

Name:G Reguvel
Regd. No.:Y21CS043

All Collection

Array:

- Mango
- Banana
- Guava

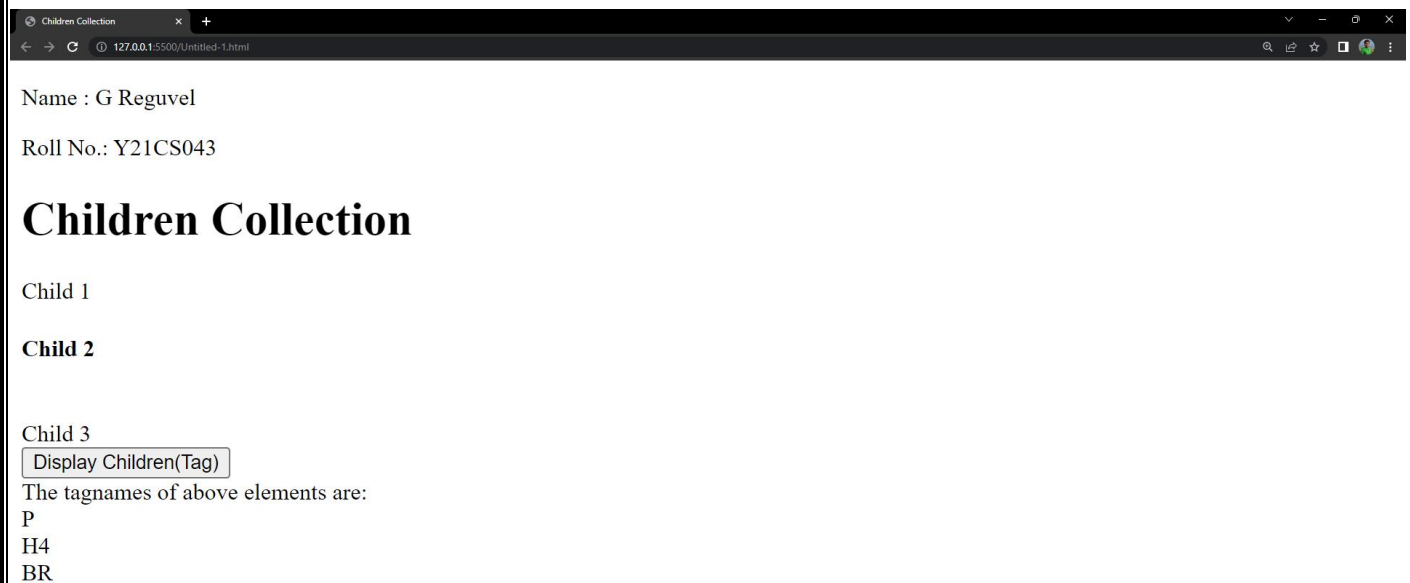
Set:

- red
- green
- blue

Map:

- Jeevan - 23 years old
- Jayasree - 24 years old
- Paul - 26 years old

6B:



Children Collection

Name : G Reguvel
Roll No.: Y21CS043

Children Collection

Child 1

Child 2

Child 3

Display Children(Tag)

The tagnames of above elements are:

P
H4
BR

Regd. No.: Y21CS043

6. demonstrate collect objects

a) Aim: All collection

```
<html>
<head>
  Name:G Reguvel<br>Regd. No.:Y21CS043<br>
  <title>Collection Objects Demo</title></head>
<body>
  <h1>All Collection</h1>
  <script>
    var fruits = ["Mango", "Banana", "Guava"];
    document.write("<h2>Array:</h2>");
    document.write("<ul>");
    fruits.forEach(function(fruit) {
      document.write("<li>" + fruit + "</li>");});
    document.write("</ul>");
    var colors = new Set();
    colors.add("red");
    colors.add("green");
    colors.add("blue");
    document.write("<h2>Set:</h2>");
    document.write("<ul>");
    colors.forEach(function(color) {
      document.write("<li>" + color + "</li>");});
    document.write("</ul>");
    var students = new Map();
    students.set("Jeevan", 23);
    students.set("Jayasree", 24);
    students.set("Paul", 26);
    document.write("<h2>Map:</h2>");
    document.write("<ul>");
    students.forEach(function(age, name) {
      document.write("<li>" + name + " - " + age + " years old</li>");});
    document.write("</ul>");
  </script></body>
</html>
```

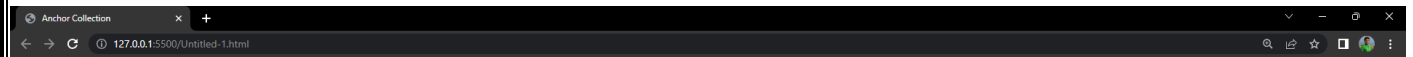
b) Aim: Children collection

```
<html>
<head>
  <title>Children Collection</title>
  <script>
    function displayChildren() {
      var parentElement = document.getElementById("parent");
      var children = parentElement.children;
      var childrenList = "";

      for (var i = 0; i < children.length; i++) {
        childrenList += children[i].tagName + "<br>";
      }
      document.getElementById("result0").innerHTML = "The tagnames of above elements are:";
      document.getElementById("result").innerHTML = childrenList;
    }
  </script>
</head>
<body>
  <p>Name : G Reguvel</p>
  <p>Roll No.: Y21CS043</p>
  <h1>Children Collection</h1>
  <div id="parent">
    <p>Child 1</p>
    <h4>Child 2</h4>
    <br>Child 3
  </div>
  <button onclick="displayChildren()">Display Children(Tag)</button>
  <div id="result0"></div>
  <div id="result"></div>
</body>
</html>
```

Regd. No.: Y21CS043

6C:



Anchor Collection

Name : G Reguvel

Roll No.: Y21CS043

[Link 1](#) [Link 2](#) [Link 3](#)

<https://eluriramesh.wordpress.com/>

<https://rvrjcce.ac.in/>

<https://www.google.com/>

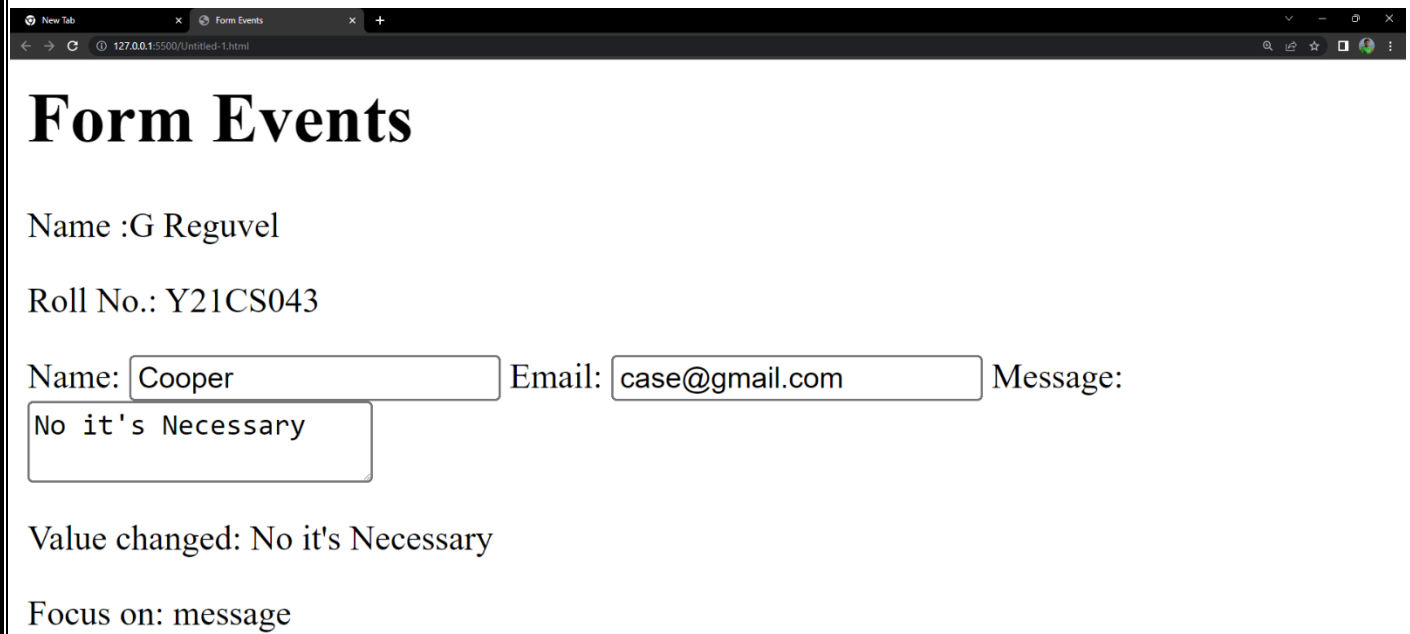
c) Aim: Anchor collection

```
<html>
<head>
  <title>Anchor Collection</title>
  <script>
    function displayAnchors() {
      var anchors = document.getElementsByTagName("a");
      var anchorList = "";
      for (var i = 0; i < anchors.length; i++) {
        anchorList += anchors[i].href + "<br>";
      }
      document.getElementById("result").innerHTML = anchorList;
    }
  </script>
</head>
<body>
  <h1>Anchor Collection</h1>
  <p>Name : G Reguvel</p>
  <p>Roll No.: Y21CS043</p>
  <a href="https://eluriramesh.wordpress.com/">Link 1</a>
  <a href="https://rvrjcce.ac.in/">Link 2</a>
  <a href="https://www.google.com">Link 3</a>

  <button onclick="displayAnchors()">Display Anchors</button>

  <div id="result"></div>
</body>
</html>
```

7A:



Form Events

Name :G Reguvel

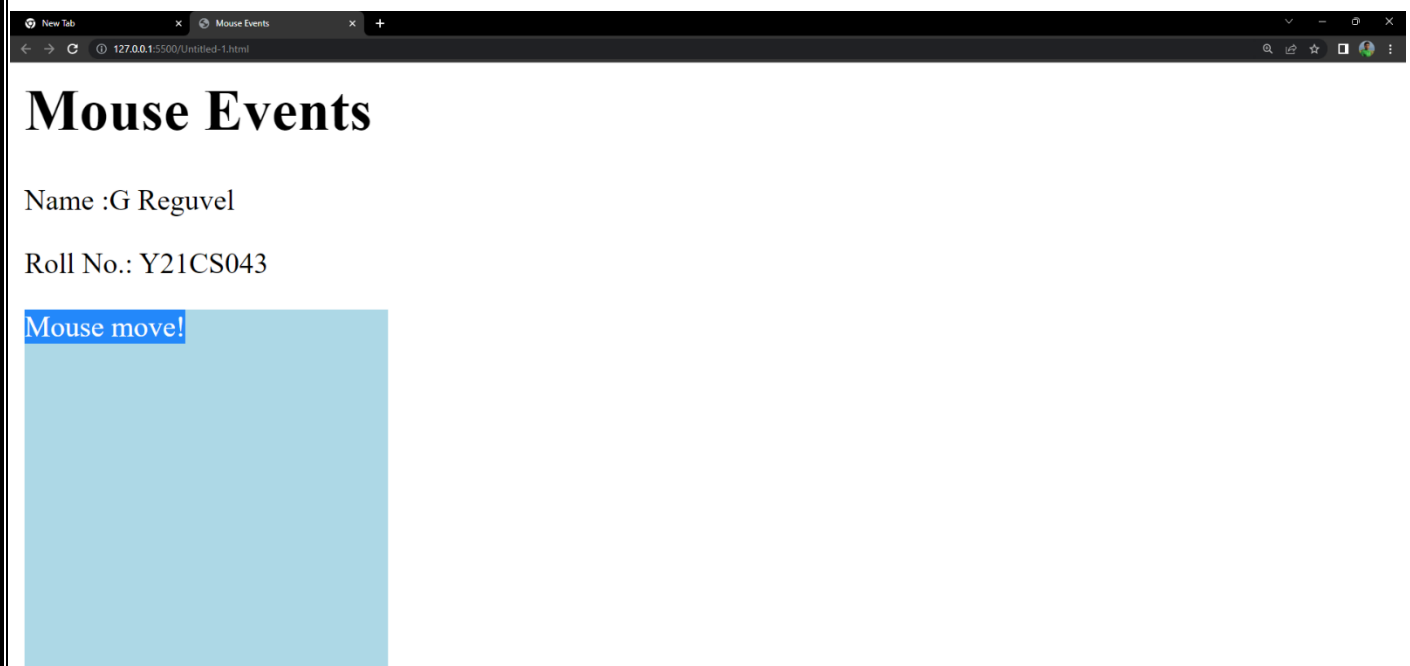
Roll No.: Y21CS043

Name: Email: Message:

Value changed: No it's Necessary

Focus on: message

7B:



Mouse Events

Name :G Reguvel

Roll No.: Y21CS043

Mouse move!

7. Demonstrate event model

a) Aim: Form events(onchange, onfocus ,onblur)

```
<html>
<head>
  <title>Form Events</title>
  <script>
    function handleChange(element) {
      var value = element.value;
      document.getElementById("d1").innerHTML = "Value changed: " + value;}
    function handleFocus(element) {
      document.getElementById("d2").innerHTML = "Focus on: " + element.id;}
    function handleBlur(element) {
      document.getElementById("d3").innerHTML = "Blur from: " + element.id;
    } </script></head>
<body>
  <h1>Form Events</h1>
  <p>Name :G Reguvel</p>
  <p>Roll No.: Y21CS043</p>
  <form>
    <label for="name">Name:</label>
    <input type="text" id="name" onchange="handleChange(this)" onfocus="handleFocus(this)"
onblur="handleBlur(this)" />
    <label for="email">Email:</label>
    <input type="email" id="email" onchange="handleChange(this)" onfocus="handleFocus(this)"
onblur="handleBlur(this)" />
    <label for="message">Message:</label>
    <textarea id="message" onchange="handleChange(this)" onfocus="handleFocus(this)"
onblur="handleBlur(this)"></textarea></form>
    <p id="d1"></p>
    <p id="d2"></p>
    <p id="d3"></p></body>
</html>
```

b) Aim: Mouse events (onclick, onmousedown,onmouseup,onmouseover,onmouseout)

```
<html>
<head>
  <title>Mouse Events</title>
  <script>
    function handleClick() {
      document.getElementById("result").innerHTML = "Clicked!";}
    function handleMouseDown() {
      document.getElementById("result").innerHTML = "Mouse down!";
    }function handleMouseUp() {
      document.getElementById("result").innerHTML = "Mouse up!";
    }function handleMouseMove() {
      document.getElementById("result").innerHTML = "Mouse move!";
    }function handleMouseOver() {
      document.getElementById("result").innerHTML = "Mouse over!";}</script>
</head>
<body>
  <h1>Mouse Events</h1>
  <p>Name :G Reguvel</p>
  <p>Roll No.: Y21CS043</p>
  <div
    onclick="handleClick()"
    onmousedown="handleMouseDown()"
    onmouseup="handleMouseUp()"
    onmousemove="handleMouseMove()"
    onmouseover="handleMouseOver()"
    style="width: 200px; height: 200px; background-color: lightblue; cursor: pointer;"
  >Move the mouse over this box and interact with it.</div>
  <p id="result"></p></body>
</html>
```

Regd. No.: Y21CS043

7C:



Event Bubbling

Name :G Reguvel

Roll No.: Y21CS043

Parent Element (Click Me)

Child Element (Click Me)

Clicked: Outer

c) Aim: Event bubbling

```
<html>
<head>
  <title>Event Bubbling</title>
  <style>
    .parent {
      background-color: lightblue;
      padding: 20px;
    }

    .child {
      background-color: lightgreen;
      padding: 10px;
    }
  </style>
  <script>
    function handleClick(event) {
      var target = event.target || event.srcElement;
      var id = target.id;
      var message = id === "parent" ? "Outer" : "Inner";
      document.getElementById("result").innerHTML = "Clicked: " + message;
    }
  </script>
</head>
<body>
  <h1>Event Bubbling</h1>
  <p>Name :G Reguvel</p>
  <p>Roll No.: Y21CS043</p>
  <div class="parent" id="parent" onclick="handleClick(event)">
    <p>Parent Element (Click Me)</p>
    <div class="child" id="child" onclick="handleClick(event)">
      <p>Child Element (Click Me)</p>
    </div>
  </div>

  <p id="result"></p>
</body>
</html>
```