

WEB PROGRAMMING LAB

(20 MCA 133)

LAB RECORD

*Submitted in partial fulfillment of the requirements for the award of
the degree of Master of Computer Applications of A P J Abdul Kalam
Technological University*

Submitted by:

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MASTER OF COMPUTER APPLICATIONS

ST. JOSEPH'S COLLEGE OF ENGINEERING AND TECHNOLOGY, PALAI

CHOONDACHERRY P.O, KOTTAYAM

KERALA

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ST. JOSEPH' S COLLEGE OF ENGINEERING AND TECHNOLOGY, PALAI

(An ISO 9001: 2015 Certified College)
CHOONDACHERRY P.O, KOTTAYAM KERALA



CERTIFICATE

*This is to certify that the Web Programming Lab Record (20 MCA 133) submitted by **Gokul Sali Rajan** student of **First** semester **MCA** at **ST. JOSEPH'S COLLEGE OF ENGINEERING AND TECHNOLOGY, PALAI** in partial fulfillment for the award of Master of Computer Applications is a bonafide record of the lab work carried out by him under our guidance and supervision. This record in any form has not been submitted to any other University or Institute for any purpose.*

Asst. Prof. Akhil Sekharan
(Faculty In- Charge)

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(HoD In Charge-MCA)

Submitted for the End Semester Examination held on _____

Examiner 1:

Examiner 2:

DECLARATION

I **Gokul Sali Rajan**, do hereby declare that the Web Programming Lab (20 MCA 133) is a record of work carried out under the guidance of Mr. Akhil Sekharan, Asst.Professor, Department of Computer Application, SJCET, Palai as per the requirement of the curriculum of Master of Computer Applications Programme of A P J Abdul Kalam Technological University, Thiruvananthapuram. Further, I also declare that this record has not been submitted, full or part thereof, in any University / Institution for the award of any Degree / Diploma.

Place: Choondacherry

Gokul Sali Rajan

Date :

(SJC22MCA-2029)

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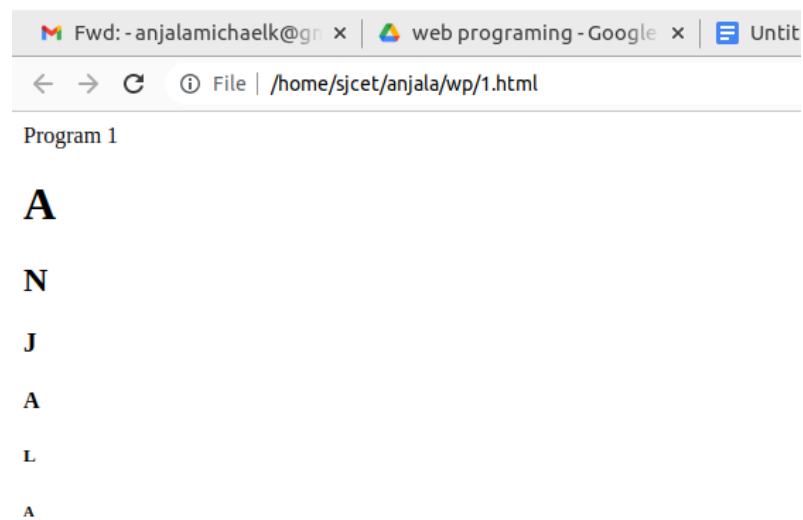
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1. Print your name to the screen with every letter being a different heading size**Code :**

```
<html>
<head>Program 1</head>
<body>
  <h1>A</h1><h2>N</h2><h3>J</h3><h4>A</h4><h5>L</h5><h6>A</h6>
</body>
</html>
```

Output :

2. Display the following text:

H₂O

12th April 2016

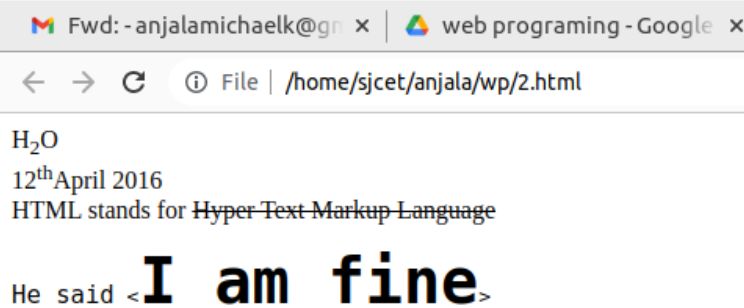
HTML stands for ~~High Text Markup Language~~

He said <**I am fine**>

Code :

```
<html>
<body>
  H<sub>2</sub>O
  <br>
  12<sup>th</sup>April 2016
  <br>
  HTML stands for <strike>Hyper Text Markup Language</strike>
  <br>
  <pre><big>He said</big> <<font size=7><b>I am fine</b></font>>></pre>
</body>
</html>
```

Output :



H₂O

12thApril 2016

HTML stands for ~~Hyper Text Markup Language~~

He said <**I am fine**>

3. Print a paragraph with 4 - 5 sentences. Each sentence should be a different font.

Code :

```
<html>
  <body>
    <p><font size="6" face="Arial" color="red">Web programming refers to the writing, markup and
coding involved in Web development, which includes Web content, Web client and server scripting and network
security.</font><font size="5" color="blue" face="Times New Roman"> The most common languages used for Web
programming are XML, HTML, JavaScript, Perl 5 and PHP.</font><font size="3" color="green" face="Aachen Bold">
Web programming is different from just programming, which requires interdisciplinary knowledge on the application
area, client and server scripting, and database technology.</font></p>
  </body>
</html>
```

Output :



4. 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.

Code :

```
<html>

  <body>

    <center><u>

      <h2>The wings of fire</h2>

      <font size="3">Author : Dr. A.P.J Abdul Kalam, Arun Tiwari</font></u>

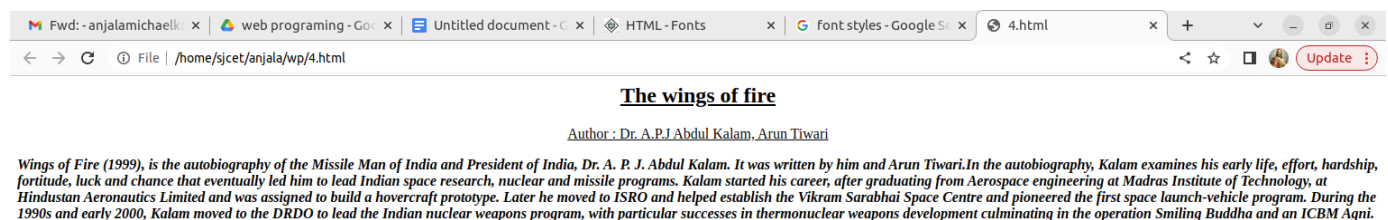
    </center>

    <p><i><b>Wings of Fire (1999), is the autobiography of the Missile Man of India and President of India, Dr. A. P. J. Abdul Kalam. It was written by him and Arun Tiwari. In the autobiography, Kalam examines his early life, effort, hardship, fortitude, luck and chance that eventually led him to lead Indian space research, nuclear and missile programs. Kalam started his career, after graduating from Aerospace engineering at Madras Institute of Technology, at Hindustan Aeronautics Limited and was assigned to build a hovercraft prototype. Later he moved to ISRO and helped establish the Vikram Sarabhai Space Centre and pioneered the first space launch-vehicle program. During the 1990s and early 2000, Kalam moved to the DRDO to lead the Indian nuclear weapons program, with particular successes in thermonuclear weapons development culminating in the operation Smiling Buddha and an ICBM Agni.</i></b></p>

  </body>

</html>
```

Output :



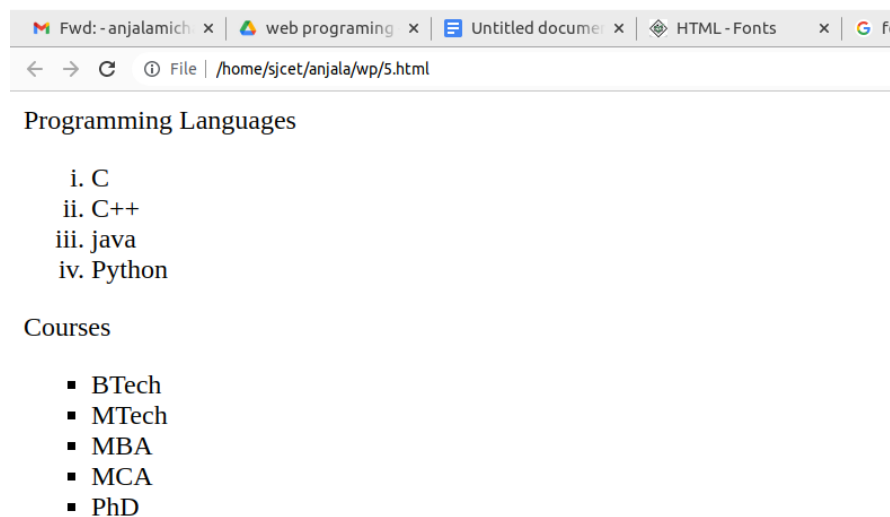
5. Print two lists with any information you want. One list should be an ordered list, the other list should be an unordered list.

Code :

<html>Explain the five classic components of a computer with diagram.

```
<body>
  <p>Programming Languages</p>
  <ol type="i">
    <li>C
    <li>C++
    <li>java
    <li>Python
  </ol>
  <p>Courses</p>
  <ul type="square">
    <li>BTech
    <li>MTech
    <li>MBA
    <li>MCA
    <li>PhD
  </ul>
</body>
</html>
```

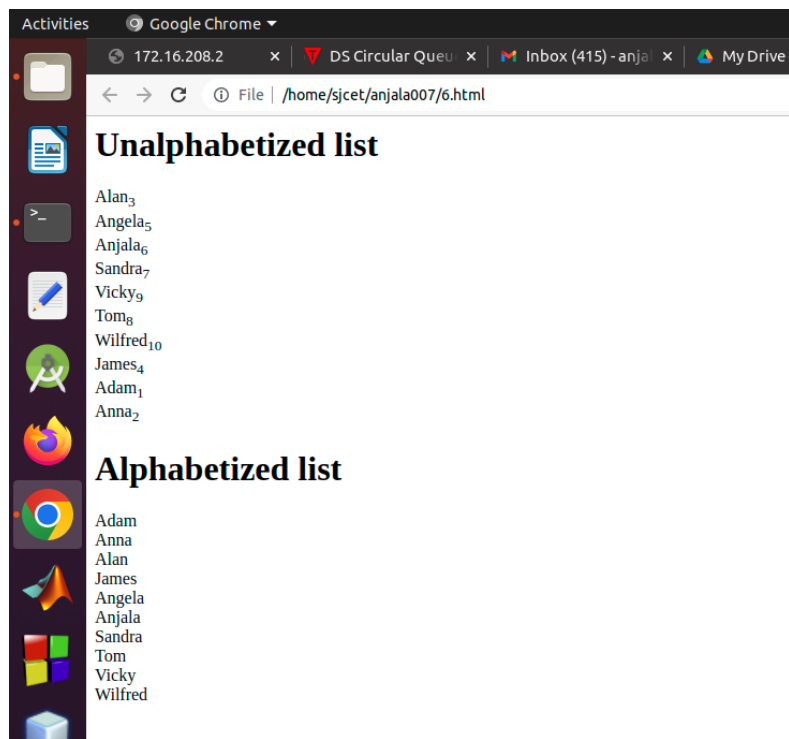
Output :



6. 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.

Code :

```
<html>
  <body>
    <h1>Unalphabetized list</h1>
    Alan<sub>3</sub><br>
    Angela<sub>5</sub><br>
    Anjala<sub>6</sub><br>
    Sandra<sub>7</sub><br>
    Vicky<sub>9</sub><br>
    Tom<sub>8</sub><br>
    Wilfred<sub>10</sub><br>
    James<sub>4</sub><br>
    Adam<sub>1</sub><br>
    Anna<sub>2</sub><br>
    <h1>Alphabetized list</h1>
    Adam<br>
    Anna<br>
    Alan<br>
    James<br>
    Angela<br>
    Anjala<br>
    Sandra<br>
    Tom<br>
    Vicky<br>
    Wilfred<br>
  </body>
</html>
```

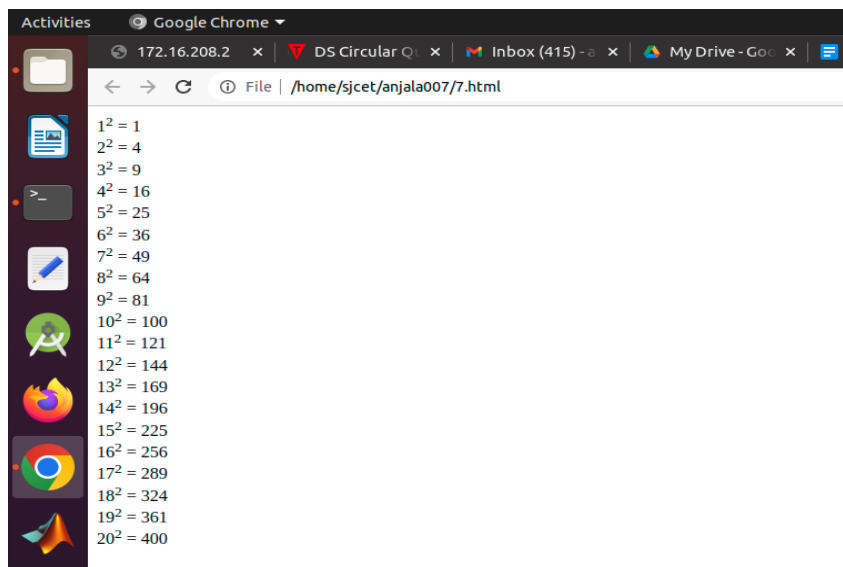
Output:

7. 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.

Code:

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

Output :

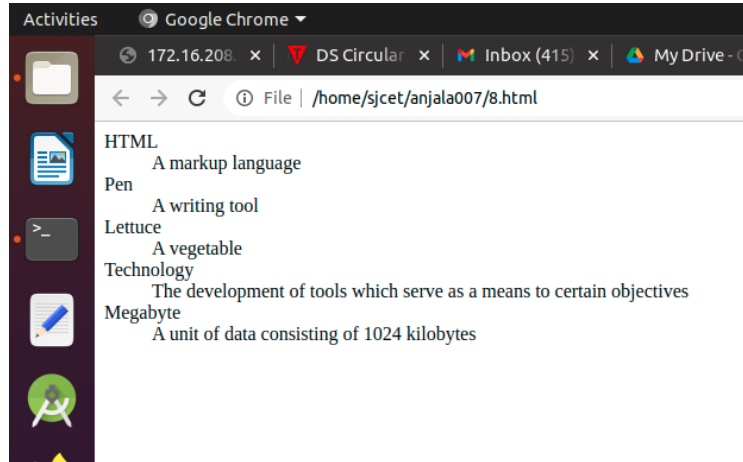


8. Print a definition list with 5 items.

Code:

```
<html>
<body>
<dl>
  <dt>HTML</dt>
  <dd>A markup language</dd>
  <dt>Pen</dt>
  <dd>A writing tool</dd>
  <dt>Lettuce</dt>
  <dd>A vegetable</dd>
  <dt>Technology</dt>
  <dd>The development of tools which serve as a means to
certain objectives</dd>
  <dt>Megabyte</dt>
  <dd>A unit of data consisting of 1024 kilobytes</dd>
</dl>
</body>
</html>
```

Output:



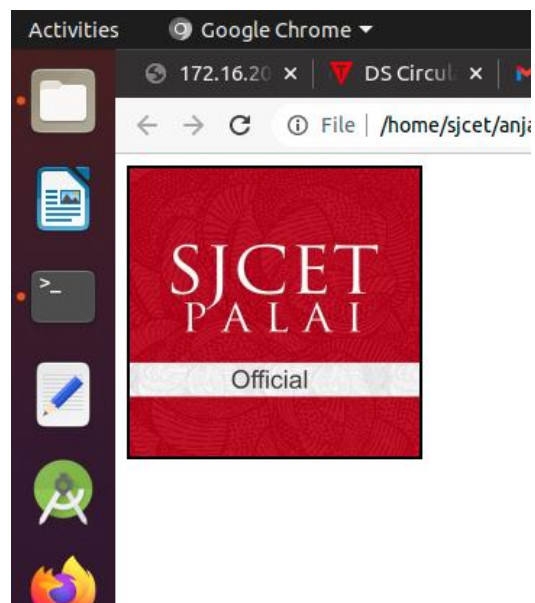
9. Display an image that has a border of size 2, a width of 200, and a height of 200.

Code:

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

height="200"

Output:



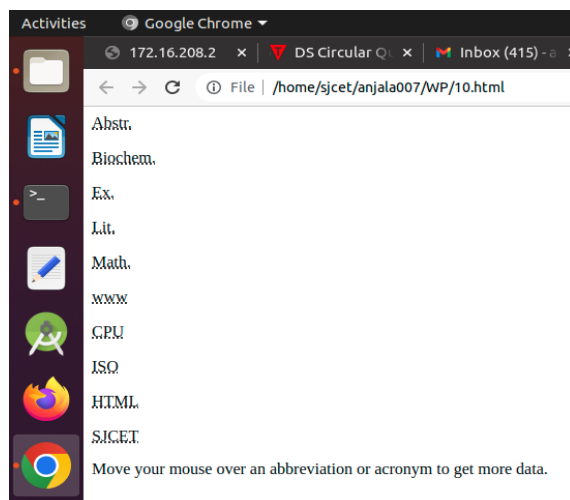
10. Print ten acronyms and abbreviations of your choosing, each separated by two lines. Specify the data that the abbreviations and acronyms represent.

Code:

```
<html>
<body>
<abbr title="Abstract">Abstr.</abbr>
<br /><br />
<abbr title="Biochemistry">Biochem.</abbr>
<br /><br />
<abbr title="Example">Ex.</abbr>
<br /><br />
<abbr title="Literature">Lit.</abbr>
<br /><br />
<abbr title="Mathematics">Math.</abbr>
<br /><br />

<acronym title="World Wide Web ">www</acronym>
<br /><br />
<acronym title="Central Processing Unit">CPU</acronym>
<br /><br />
<acronym title="International Standards Organization">ISO</acronym>
<br /><br />
<acronym title="Hyper Text Markup Language">HTML</acronym>
<br /><br />
<acronym title="St. Joseph's College of Engineering and Technology">SJCET</acronym>
<p>
Move your mouse over an abbreviation or acronym to get more data.
</p>
</body>
</html>
```

Output:

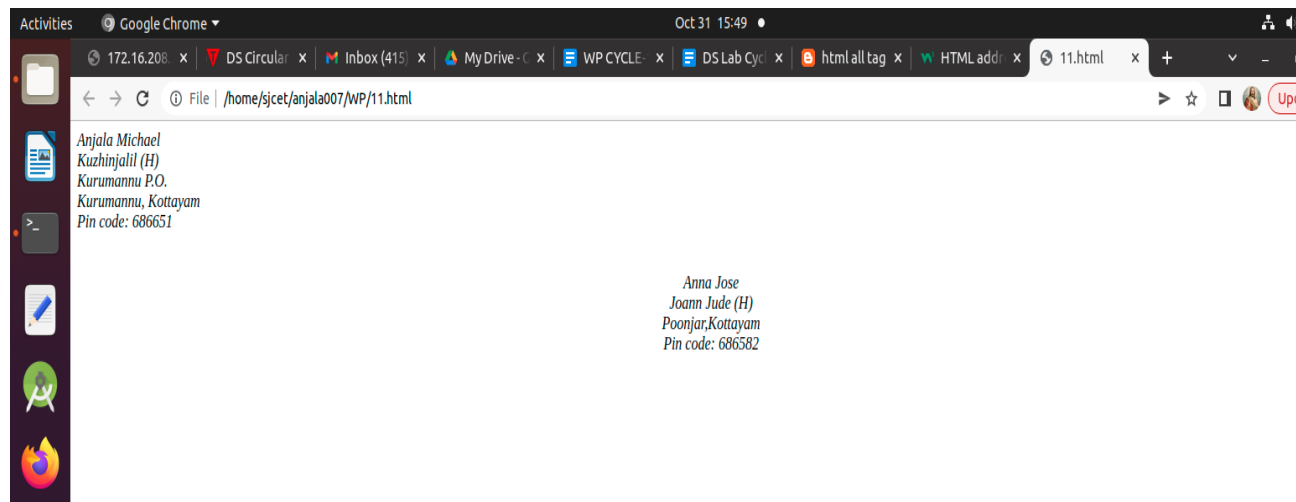


11. Print two addresses in the same format used on the front of envelopes (sender's address in top left corner, receiver's address in the center)

Code:

```
<html>
<body>
<address>
Anjala Michael<br>
Kuzhinjalil (H)<br>
Kurumannu P.O. <br>
Kurumannu, Kottayam <br>
Pin code: 686651
</address>
<br><br>
<center>
<address>
Anna Jose<br>
Joann Jude (H)<br>
Poonjar,Kottayam<br>
Pin code: 686582
</address>
</center>
</body>
</html>
```

Output:



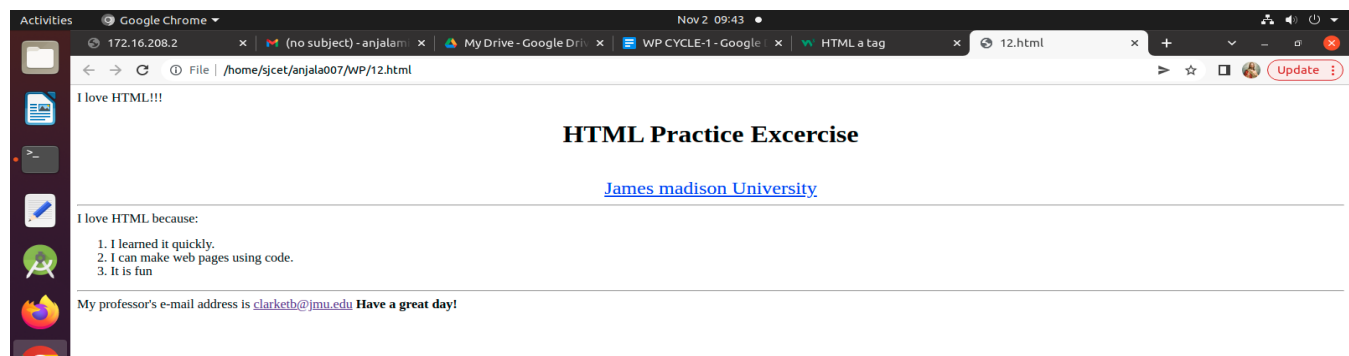
12. Create an HTML page with the following contents:



Code:

```
<html>
<head>I love HTML!!!</head>
<body>
<center><h1>HTML Practice Excercise</h1><br>
<u><font size ="5" color="blue">James madison University</font></u></center>
<hr>
I love HTML because:<br>
<ol type="1">
  <li>I learned it quickly.
  <li>I can make web pages using code.
  <li>It is fun
</ol>
<hr>
My professor's e-mail address is <a href="">clarketb@jmu.edu</a>
<b>Have a great day!</b>
</body>
</html>
```

Output:



13. Create the following table.

Time Table					
Hours	Mon	Tue	Wed	Thu	Fri
	Science	Maths	Science	Maths	Arts
	Social	History	English	Social	Sports
	Lunch				
	Science	Maths	Science	Maths	Project
	Social	History	English	Social	

Code:

```

<html>
<body>
<table align="center" border="1">
<tr><th colspan="6">Time Table</th></tr>
<tr><th rowspan="7">Hours</th></tr>

<tr>
<td align="center">Mon</td>
<td align="center">Tue</td>
<td align="center">Wed</td>
<td align="center">Thu</td>
<td align="center">Fri</td>
</tr>
<tr>
<td>Science</td>
<td>Maths</td>
<td>Science</td>
<td>Maths</td>
<td>Arts</td>
</tr>
<tr>
<td>Social</td>
<td>History</td>
<td>English</td>
<td>Social</td>
<td>Sports</td>
</tr>
<tr><th colspan="5">Lunch</th></tr>
<tr>
<td>Science</td>
<td>Maths</td>
<td>Science</td>
<td>Maths</td>
<td rowspan="2">Project</td>
</tr>
<tr>
<td>Social</td>
<td>History</td>
<td>English</td>
<td>Social</td>
</tr>

```

```
<tr>
  <td>Social</td>
  <td>History</td>
  <td>English</td>
  <td>Social</td>
</tr>
</table>
</body>
</html>
```

Output:



Time Table					
Hours	Mon	Tue	Wed	Thu	Fri
	Science	Maths	Science	Maths	Arts
	Social	History	English	Social	Sports
	Lunch				
	Science	Maths	Science	Maths	Project
	Social	History	English	Social	

14. Create a HTML Page which looks like the one given below.

Pochi the Cat

Introduction

Pochi was adopted from an animal shelter and now resides in Seattle, WA, where she runs a small but successful web page design business exclusively for cat clients.

Profile

- *favorite food* - smoked salmon
- *hobbies* - watching fishing on ESPN, snacking on garden flowers, monitoring the apartment parking lot
- *hidden talent* - karaoke



Links

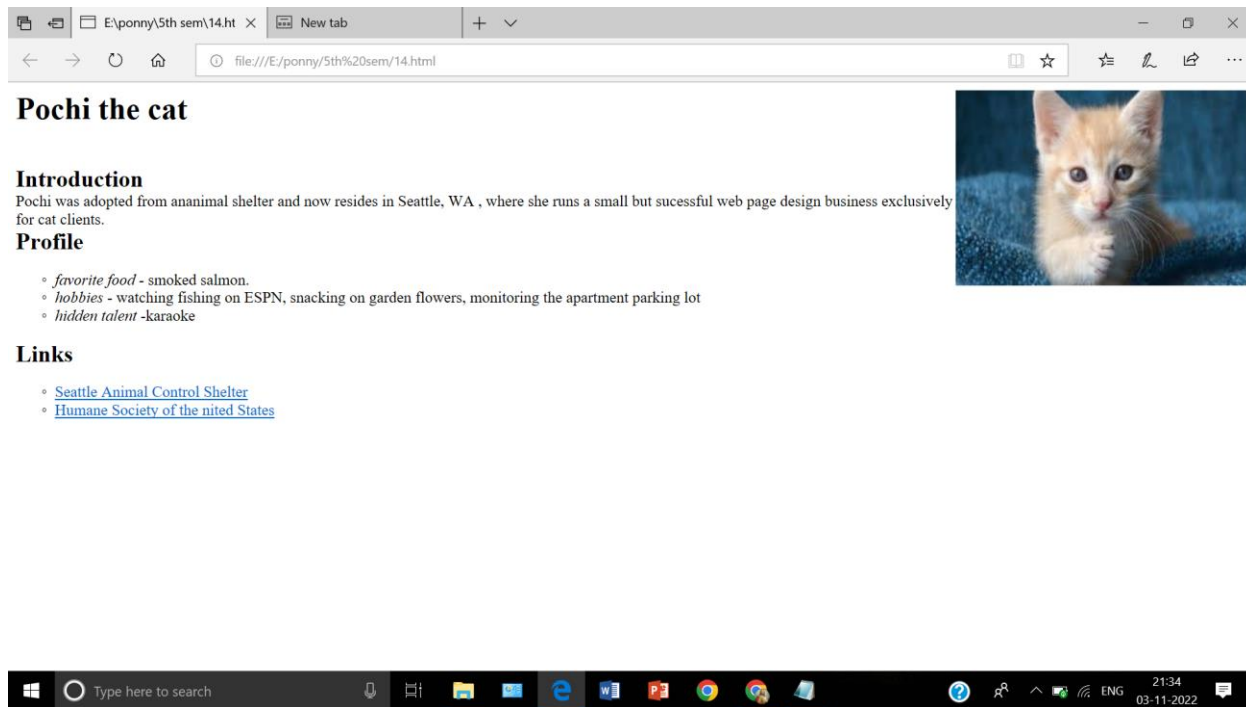
- [Seattle Animal Control Shelter](#)
- [Humane Society of the United States](#)

Code:

```
<html>
<body>

<h1>Pochi the cat</h1><br>
<font size = "5"><b>Introduction</b></font><br>
Pochi was adopted from an animal shelter and now resides in Seattle, WA , where she runs a small but successful
web page design business exclusively for cat clients.<br>
<font size = "5"><b>Profile</b></font>
<ul type="circle">
  <li><i>favorite food - </i>smoked salmon.
  <li><i>hobbies - </i>watching fishing on ESPN, snacking on garden flowers, monitoring the apartment parking lot
  <li><i>hidden talent -</i>karaoke
</ul>
<font size = "5"><b>Links</b></font>
<ul type="circle">
  <li><a href="">Seattle Animal Control Shelter</a>
  <li><a href="">Humane Society of the nited States</a>
</body>
</html>
```

Output:



15. Create links to three different pages on three different websites that should all open in a new window.

Code:

```
<html>
<body>
<style type="text/css">
body{
font-family: times new roman;
font-size: 20px;
text-align: center;
}
</style>
<h3><u>Click the following links to visit the websites</u></h3>
<a href="https://www.w3schools.com" target="_blank">W3 Schools</a><br>
<a href="https://www.tutorialspoint.com/" target="_blank">Tutorials Point</a><br>
<a href="https://www.youtube.com/" target="_blank">Youtube</a><br>
</body>
</html>
```

Output:



Click the following links to visit the websites

[W3 Schools](https://www.w3schools.com)
[Tutorials Point](https://www.tutorialspoint.com/)
[Youtube](https://www.youtube.com/)

16. Create a HTML page with different types of frames such as floating frame, navigation frame & mixed frame.

Code:

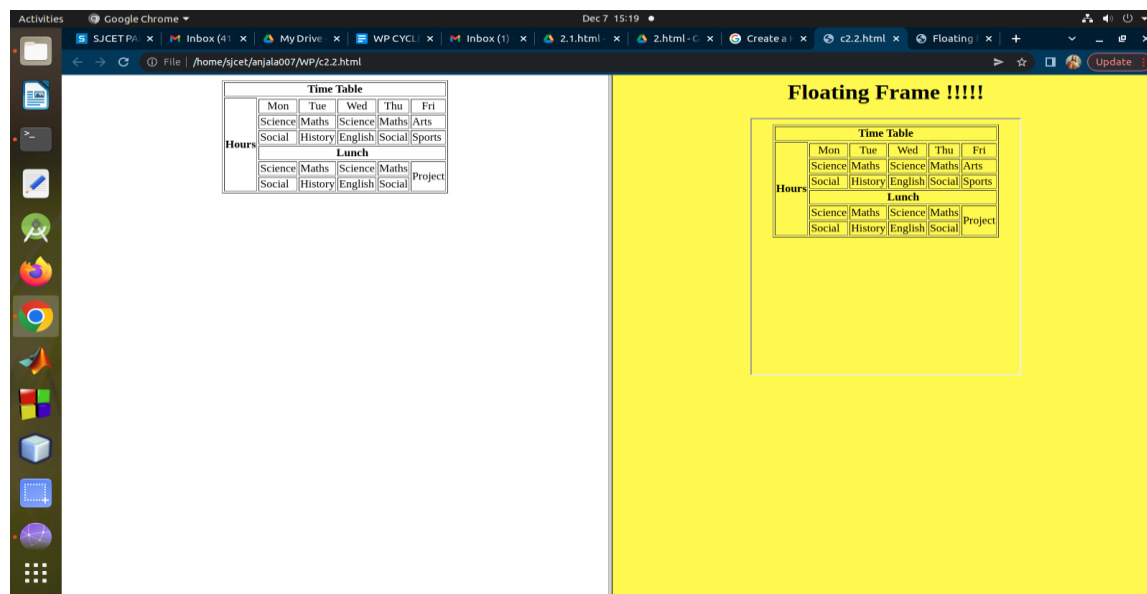
c2.html

```
<html>
  <head>
    <title>Floating Frame</title>
  </head>
  <body bgcolor="yellow">
    <center>
      <h1>Floating Frame !!!!!</h1>
      <iframe src="13.html" height="50%" width="50%"></iframe>
    </center>
  </body>
</html>
```

C2.2.html

```
<html>
<frameset rows="100%" cols="50%,50%">
<frame src="13.html" />
<frame src="c2.html" />
</frameset>
</html>
```

Output :



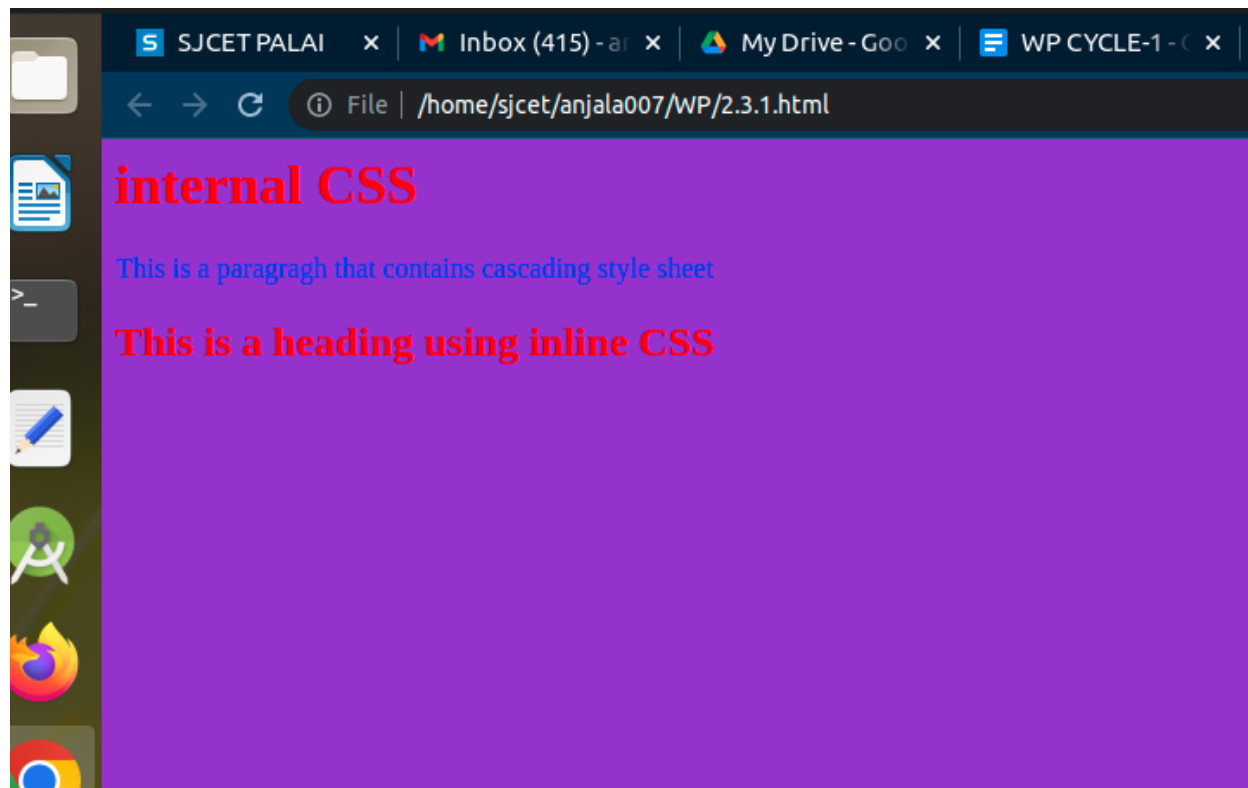
17. Create a HTML file by applying the different styles using inline, external & internal style sheets.

Internal & Inline CSS

Code:

```
<html>
<head>
<style>
body{background-color:DarkViolet;}
h1{color:red;}
p{color:blue}
</style>
</head>
<body>
<h1>internal CSS</h1>
<p>This is a paragraph that contains cascading style sheet</p>
<h2 style="color:red">This is a heading using inline CSS</h2>
</body>
</html>
```

Output 1:



External CSS

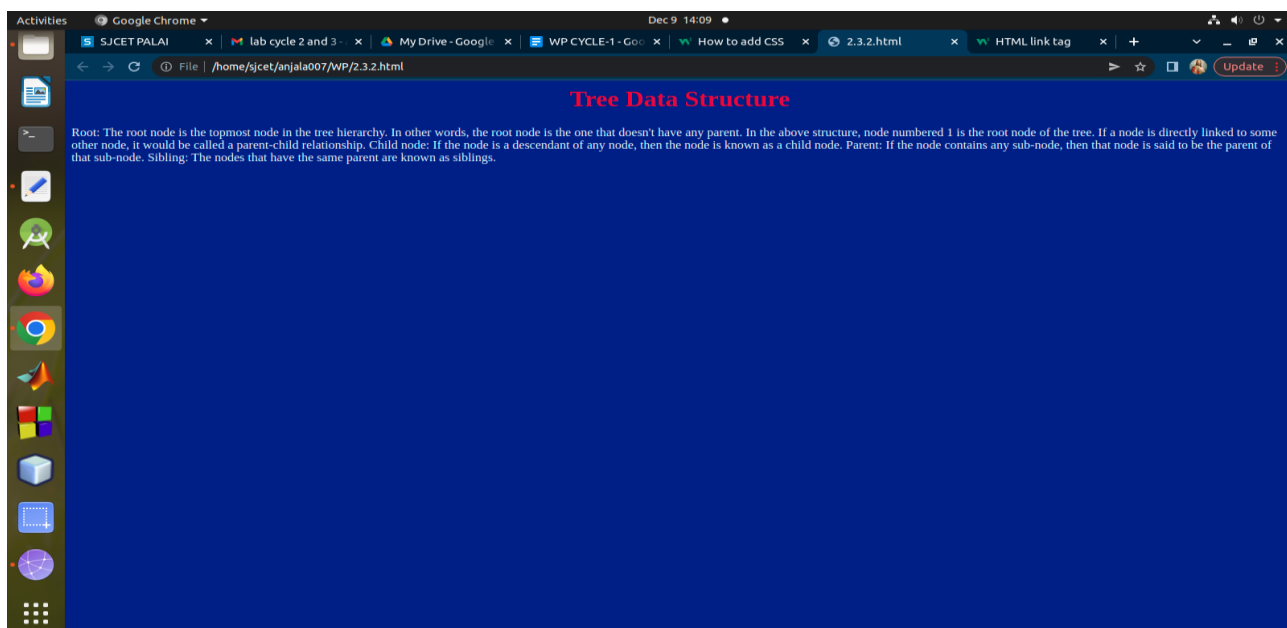
excess.html

```
<html>
  <head>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <h1>Tree Data Structure</h1>
    <p>Root: The root node is the topmost node in the tree hierarchy. In other words, the root node is
the one that doesn't have any parent. In the above structure, node numbered 1 is the root node of the tree. If a node
is directly linked to some other node, it would be called a parent-child relationship.
Child node: If the node is a descendant of any node, then the node is known as a child node.
Parent: If the node contains any sub-node, then that node is said to be the parent of that sub-node.
Sibling: The nodes that have the same parent are known as siblings.</p>
  </body>
</html>
```

style.css

```
body{
  background-color:DarkBlue;
}
h1{
  color:Crimson;
  text-align:center;
}
p{
  text-align:left;
  color:Azure;
}
```

Output 2:

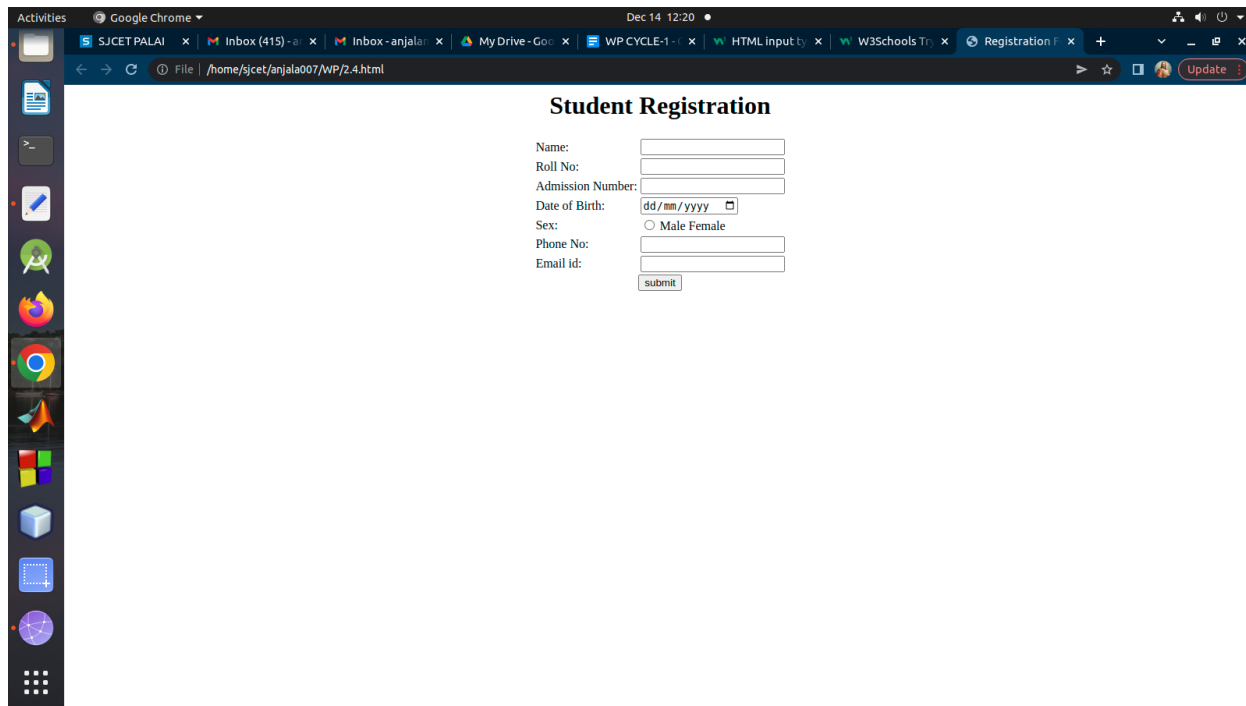


18. Create a registration form using HTML.**Code:**

```

<html>
  <head>
    <title>Registration Form</title>
  </head>
  <body>
    <h1><center>Student Registration</center></h1>
    <table align="center">
      <form action="" method="">
        <tr><td>Name:</td>
          <td><input type="text"></td>
        </tr>
        <tr><td>Roll No:</td>
          <td><input type="text"></td>
        </tr>
        <tr><td>Admission Number:</td>
          <td><input type="text"></td>
        </tr>
        <tr><td>Date of Birth:</td>
          <td><input type="date"></td>
        </tr>
        <tr><td>Sex:</td>
          <td><input type="radio">
            <label>Male</label>
            <label>Female</label>
          </td>
        </tr>
        <tr><td>Phone No:</td>
          <td><input type="text"></td>
        </tr>
        <tr><td>Email id:</td>
          <td><input type="text"></td>
        </tr>
      </table>
      <center><input type="submit" value="submit">
    </form>
  </body>
</html>

```

Output:

The screenshot shows a web browser window with the title "Student Registration". The browser's address bar displays the file path "File | /home/sjcet/anjala007/wp/2.4.html". The form contains the following fields and controls:

- Name:
- Roll No:
- Admission Number:
- Date of Birth:
- Sex: ☐ Male ☐ Female
- Phone No:
- Email id:
-

19. Create an HTML page using frames which are similar to the following one. In the left frame provide hyperlinks to 3 important monuments in the world. On clicking that hyperlink an image of the monument should be displayed in right frame with suitable description

Code:**2.5.html**

```
<html>
  <frameset cols="25%,*">
    <frame src="link.html"/>
    <frame src="home.html" name="z" />
  </frameset>
</html>
```

home.html

```
<html>
  <style>
    h1{
      text-align: center;
      color: Azure;
    }
    body{
      background-color: DarkMagenta;
    }
    p{
      font-size:30px;
      color: AliceBlue;
    }
  </style>
  <body>
    <br>
    <h1>Famous Monuments</h1>
    <p><br><br>Taj Mahal
      <br><br>India Gate
      <br><br>Charminar</p>
  </body>
</html>
```

link.html

```
<html>
  <style>
    a{
      font-size: 30px;
      color: red;
    }
    body{
      background-color: Gold;
    }
  </style>
```

```

<body style="text-align: center">
    <br><br><br><br>
    <h1 align="center"><font face="cooper" color="DarkBlue" size="6">The Famous
Monuments</font></h1>
    <a href="home.html" target="z">Home</a><br>
    <a href="tajmahal.html" target="z">Taj Mahal</a><br>
    <a href="pyramid.html" target="z">Pyramids of Giza </a><br>
    <a href="coloessium.html" target="z">The Colosseum,Rome</a>
</body>
</html>

```

tagmahal.html

```

<html>
    <style>
        body{
            font-family: times new roman;
            font-size: 20px;
            background-color: DarkBlue;
        }
        h1{
            color: Azure;
            text-align: center;
        }
        p{
            color:Linen;
        }
    </style>
    <body>
        <h1>Taj Mahal</h1>
        <center></center>
        <p>The Taj Mahal 'Crown of the Palace', is an ivory-white marble mausoleum on the southern bank
of the river Yamuna in the Indian city of Agra. It was commissioned in 1632 by the Mughal emperor Shah Jahan
(reigned from 1628 to 1658) to house the tomb of his favorite wife, Mumtaz Mahal; it also houses the tomb of Shah
Jahan himself. The tomb is the centerpiece of a 17-hectare(42-acre) complex, which includes a mosque and a guest
house, and is set in formal gardens bounded on three sides by a crenelated wall. </p>
    </body>
</html>

```

pyramid.html

```

<html>
    <style>
        body{
            font-family: times new roman;
            font-size: 20px;
            background-color: DarkBlue;
        }
        h1{
            color: Azure;

```

```

        text-align: center;
    }
    p{
        color:Linen;
    }
</style>
<body>
    <h1>Great Pyramid of Giza</h1>
    <center></center>
    <p>The Great Pyramid of Giza is the biggest Egyptian pyramid and the tomb of Fourth Dynasty
pharaoh Khufu. Built in the early 26th century BC during a period of around 27 years,the pyramid is the oldest of the
Seven Wonders of the Ancient World, and the only one to remain largely intact. As part of the Giza pyramid complex,
it borders present-day Giza in Greater Cairo, Egypt.</p>
</body>
</html>

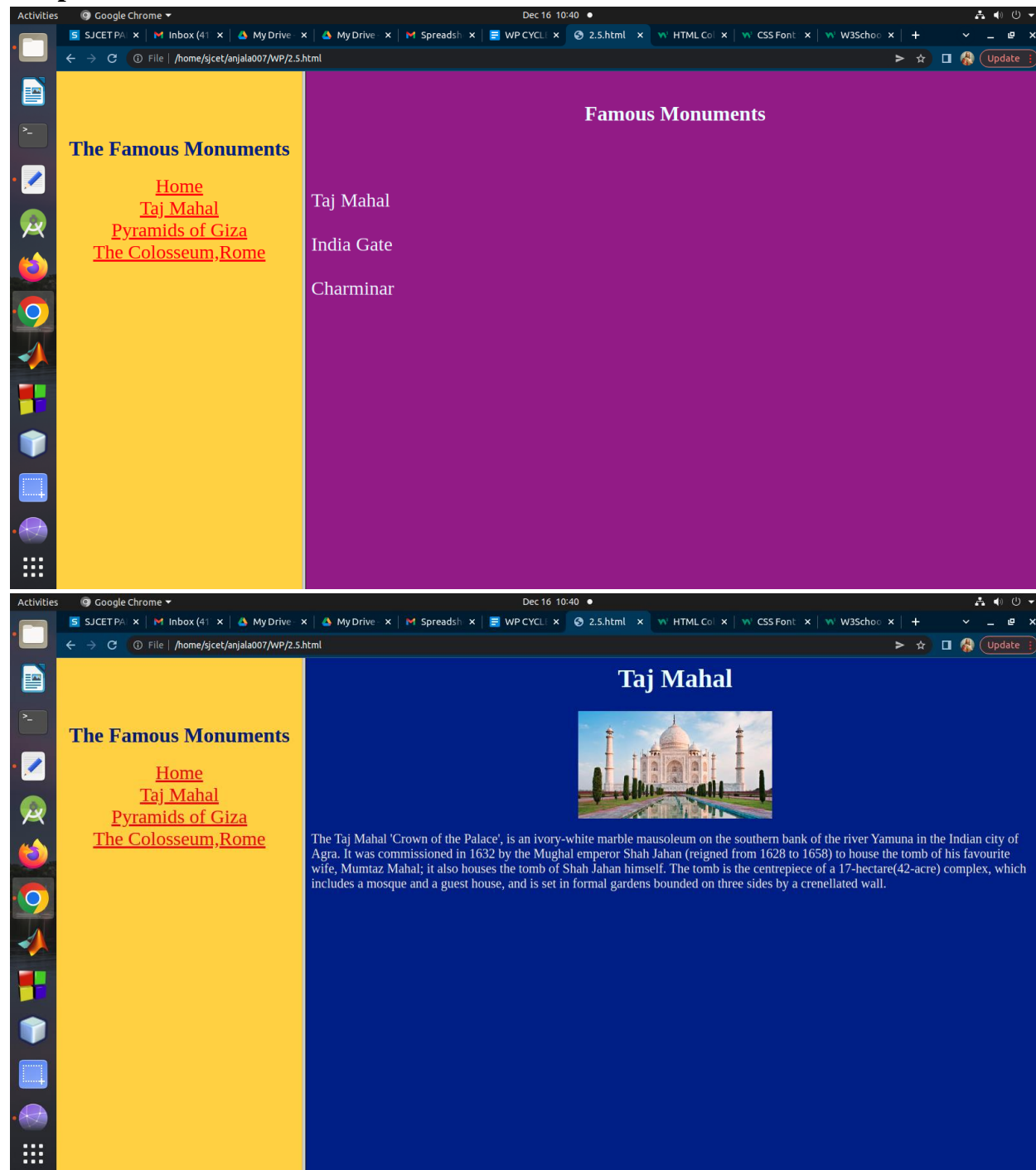
```

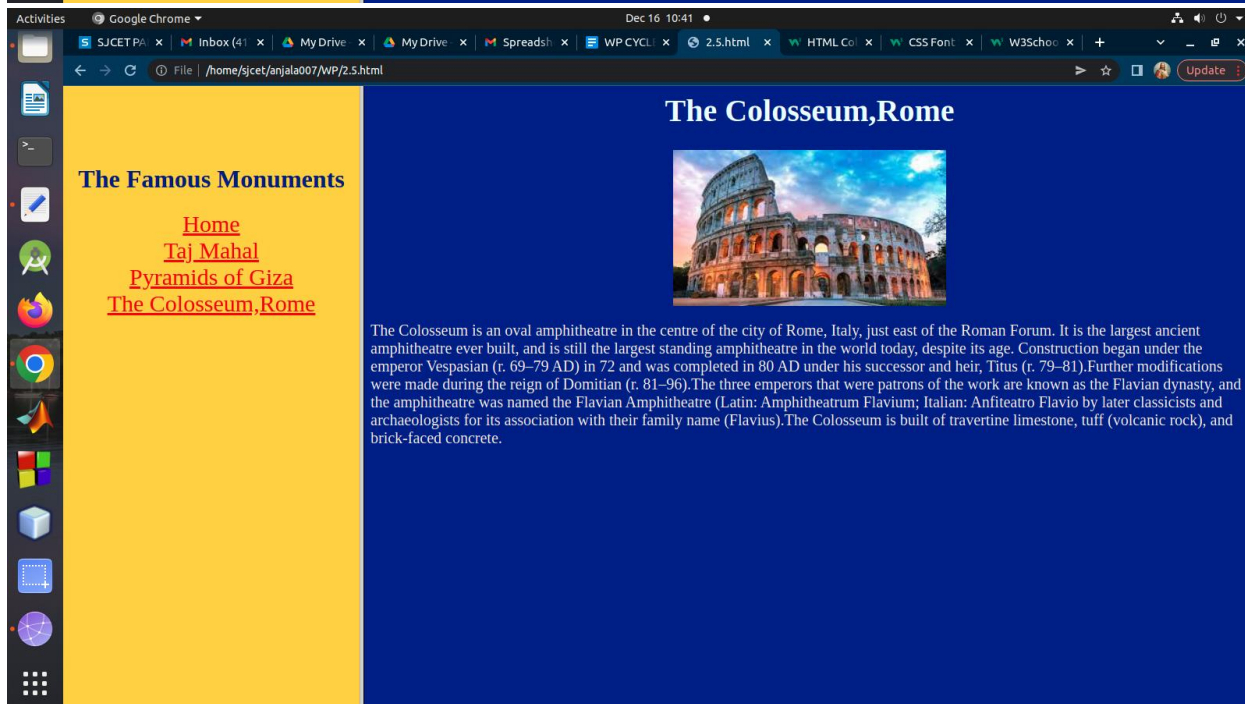
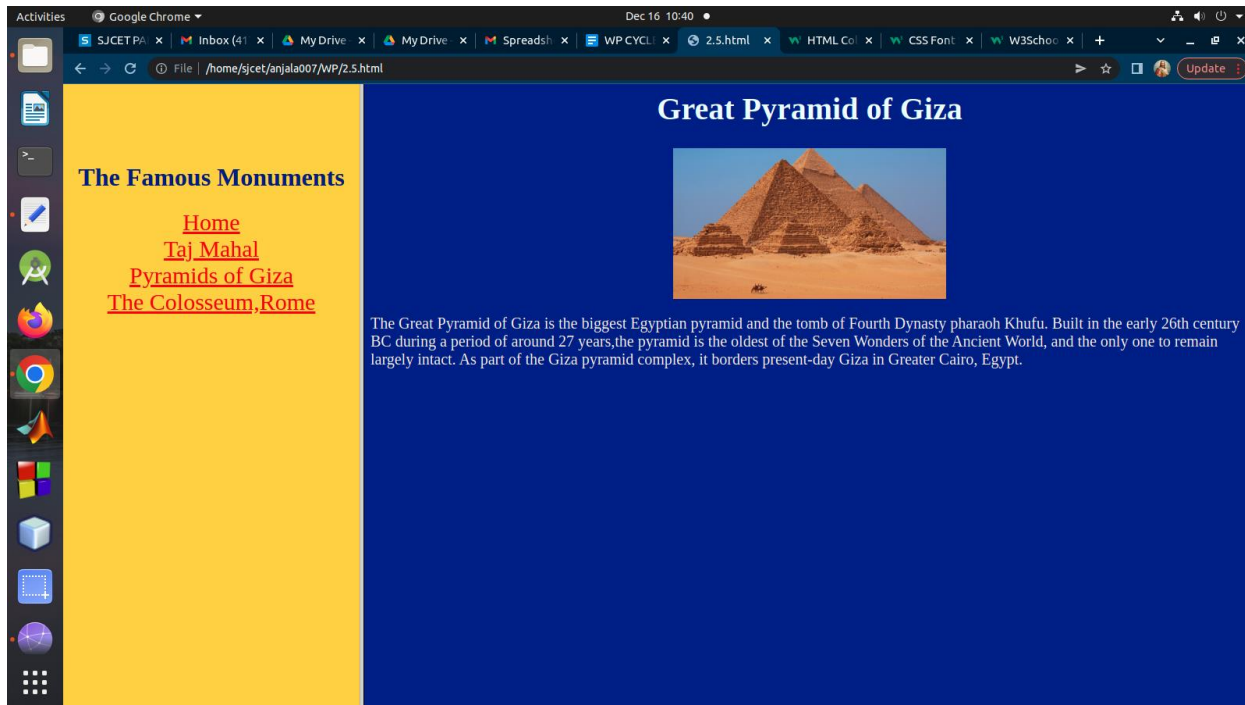
coloesium.html

```

<html>
    <style>
    body{
        font-family: times new roman;
        font-size: 20px;
        background-color: DarkBlue;
    }
    h1{
        color: Azure;
        text-align: center;
    }
    p{
        color:Linen;
    }
</style>
<body>
    <h1>The Colosseum,Rome</h1>
    <center></center>
    <p>The Colosseum is an oval amphitheatre in the centre of the city of Rome, Italy, just east of the
Roman Forum. It is the largest ancient amphitheatre ever built, and is still the largest standing amphitheatre in the
world today, despite its age. Construction began under the emperor Vespasian (r. 69–79 AD) in 72 and was
completed in 80 AD under his successor and heir, Titus (r. 79–81).Further modifications were made during the reign
of Domitian (r. 81–96).The three emperors that were patrons of the work are known as the Flavian dynasty, and the
amphitheatre was named the Flavian Amphitheatre (Latin: Amphitheatrum Flavium; Italian: Anfiteatro Flavio by later
classicists and archaeologists for its association with their family name (Flavius).The Colosseum is built of travertine
limestone, tuff (volcanic rock), and brick-faced concrete. </p>
</body>
</html>

```


Output:



20. Make up three image links for 3 web browsers and put them in a borderless table. Construct the table so that there is just a little space between the images.

Code:

```
<html>
  <body>
    <style>
      th,td{
        padding: 20px;
      }
      body{
        text-align: center;
      }
    </style>
    <table align="center" style="padding-top: 200px">
      <tr>
        <td><a href="https://www.mozilla.org/en-US/"></a></td>
        <td><a href="https://www.yahoo.com/"></a></td>
        <td><a href="https://sjcetpalai.ac.in/"></a></td>
      </tr>
    </table>
  </body>
</html>
```

Output:

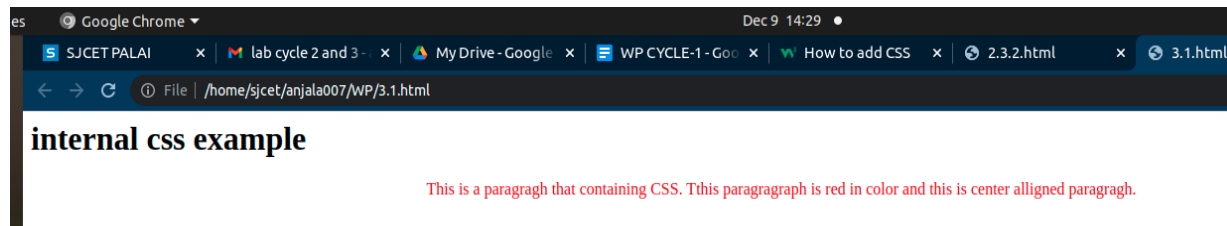


21. Create all <p> elements will be center-aligned, with a red text color

Code:

```
<html>
<head>
<style>
p{
    color:red;
    text-align:center
}
</style>
</head>
<body>
<h1>internal css example</h1>
<p>This is a paragraph that containing CSS. Tthis paragraph is red in color and this is center alligned
paragragh.</p>
</body>
</html>
```

Output:

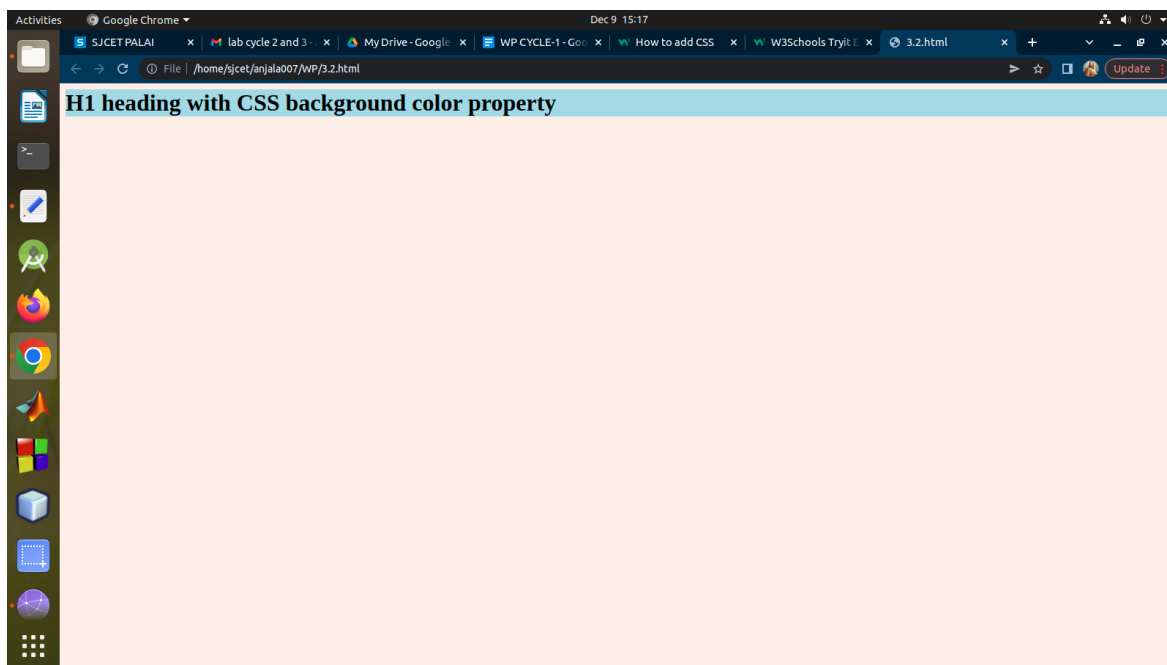


22. Set the background color for the page to "linen" and the background color for <h1> to "lightblue".

Code:

```
<html>
<head>
<style>
body{
    background-color:linen;
}
h1{
background-color:lightblue;
}
</style>
</head>
<body>
<h1>H1 heading with CSS background color property</h1>
</body>
</html>
```

Output:



23. Add an external style sheet with the URL: "mystyle.css".

Code:

HTML code

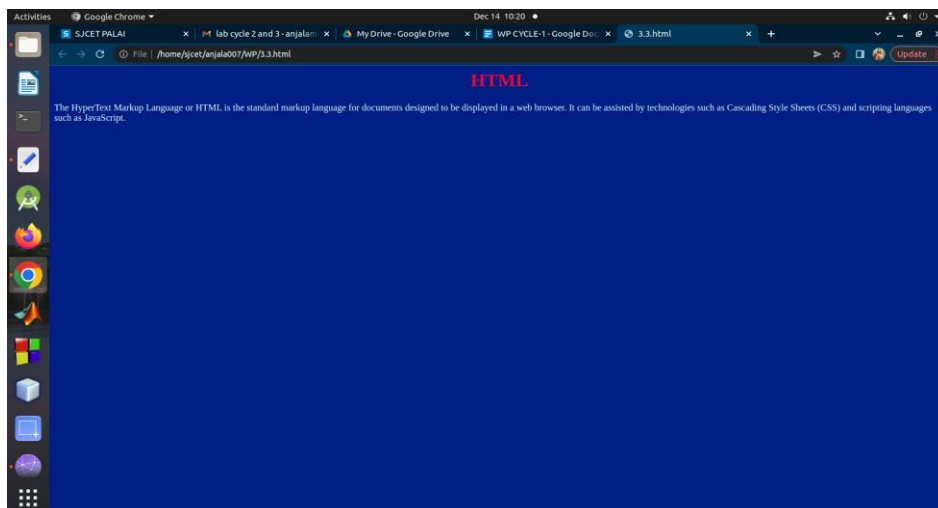
```
<html>
    <head>
        <link rel="stylesheet" href="mystyle.css">
    </head>
    <body>
<h1>HTML</h1>
        <p>The HyperText Markup Language or HTML is the standard markup language for documents
designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets
(CSS) and scripting languages such as JavaScript.
```

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

mystyle.css

```
body{
    background-color:DarkBlue;
}
h1{
    color:Crimson;
    text-align:center;
}
p{
    text-align:left;
    color:Azure;
}
```

Output:

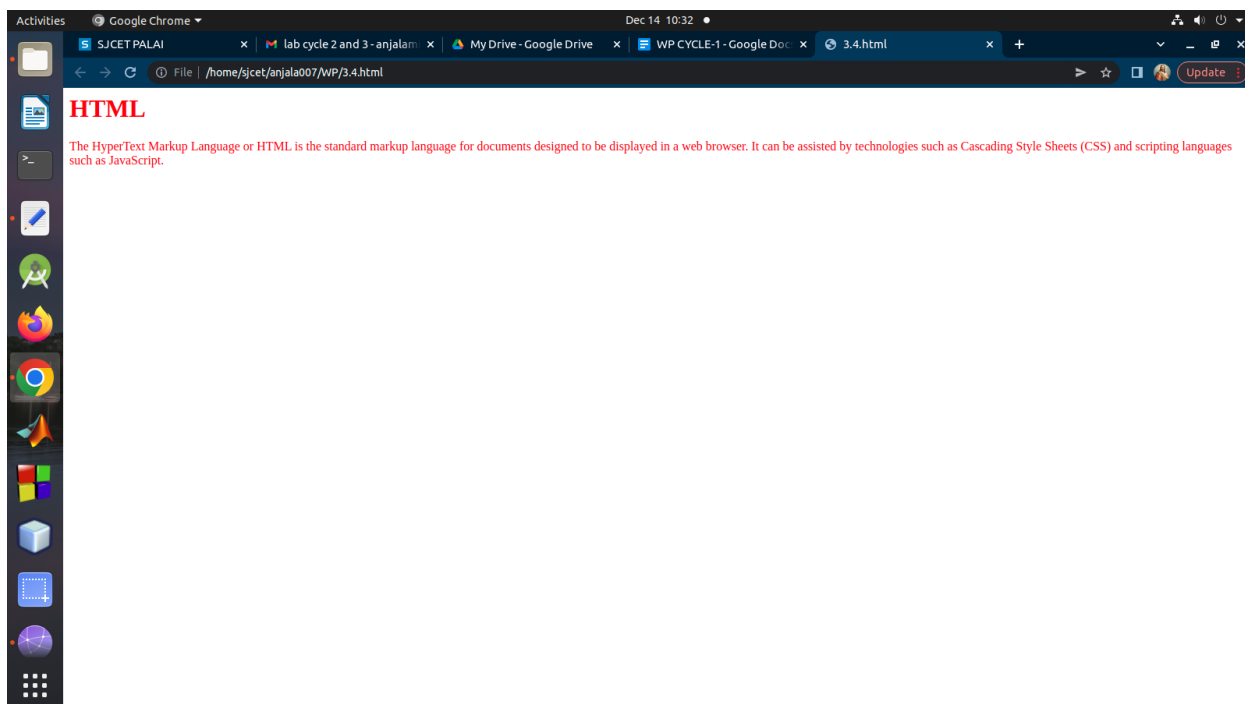


24. Set "background-color: linen" for the page, using an inline style.

Code:

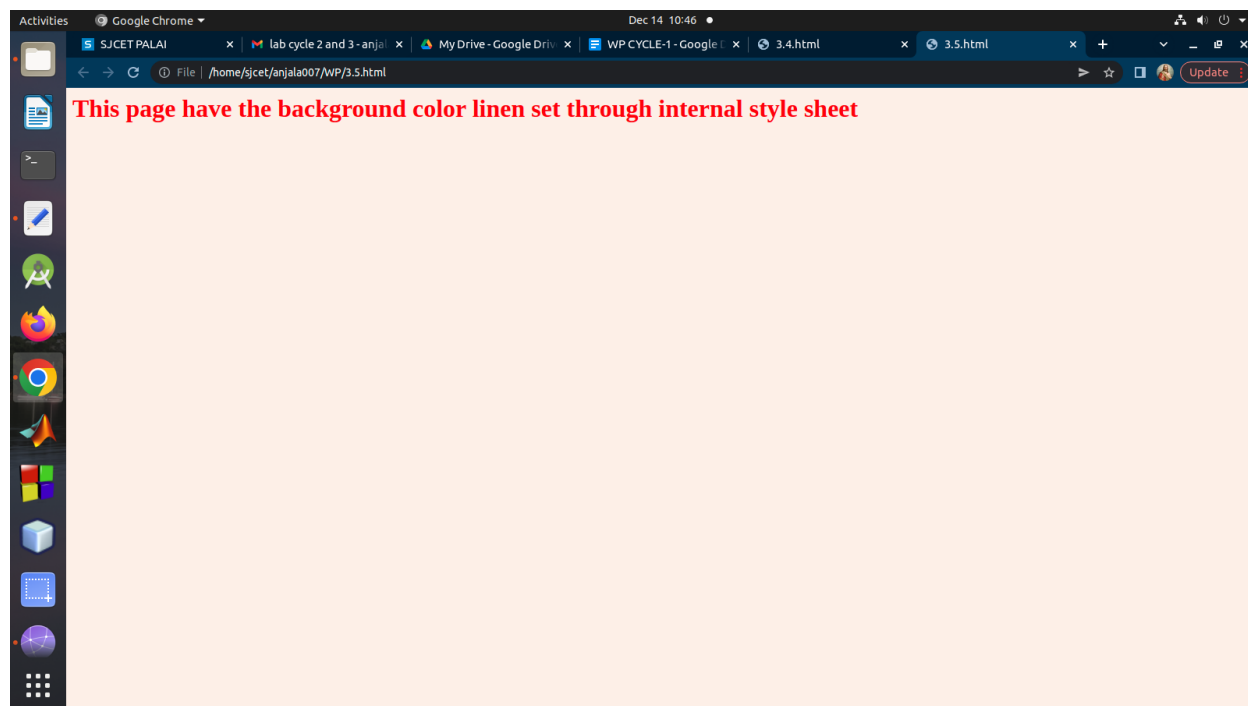
```
<html>
  <body style="color:linen">
    <h1><font color="red">HTML</h1>
    <p>The HyperText Markup Language or HTML is the standard markup language for documents
designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets
(CSS) and scripting languages such as JavaScript.</p>
  </body>
</html>
```

Output:



25. Set "background-color: linen" for the page, using an internal style sheet.**Code:**

```
<html>
  <head>
    <style>
      body{background-color:linen}
    </style>
  </head>
  <body>
    <h1><font color="red">This page have the background color linen set through internal style
sheet</font></h1>
  </body>
</html>
```

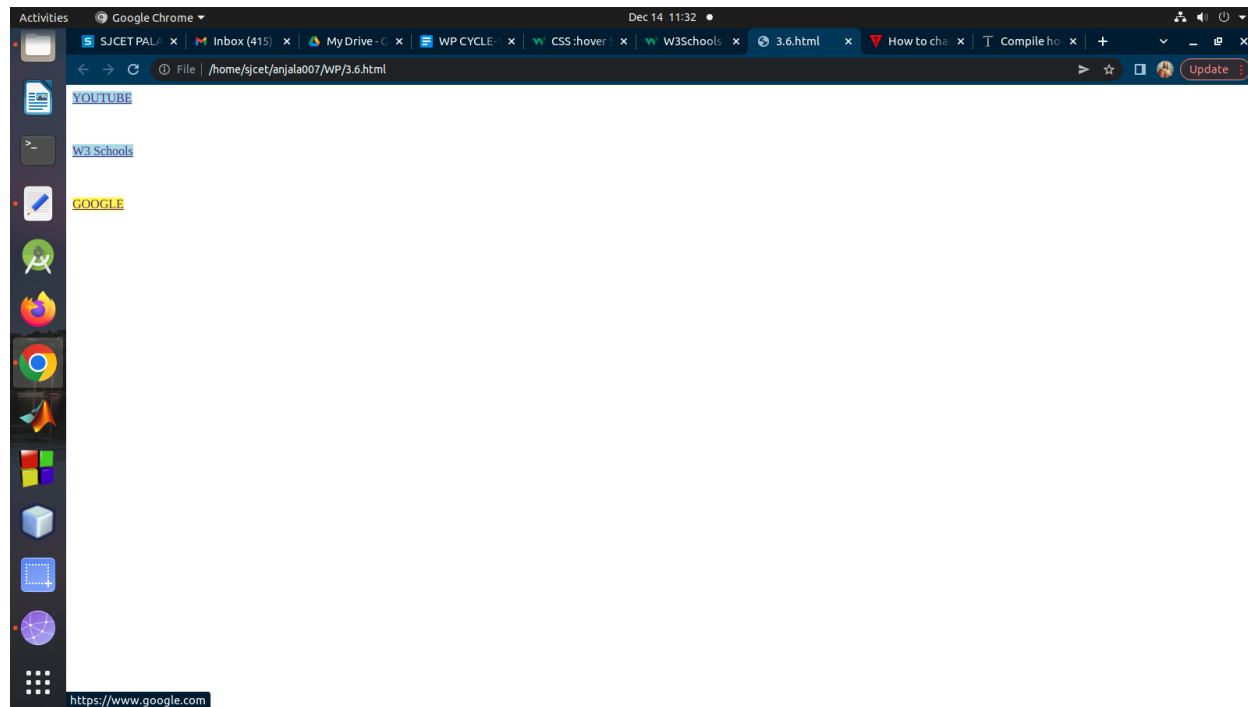
Output:

26. Set the background color for visited and unvisited links to "lightblue", and the background color for the hover and active link states to "yellow".

Code:

```
<html>
  <head>
    <title></title>
  </head>
  <style>
    a{background-color: lightblue;}
    a:hover{background-color: yellow;}
  </style>
  <body>
    <p><a href="https://www.youtube.com/" target="_blank">YOUTUBE</a></p><br>
    <p><a href="https://www.w3schools.com/" target="_blank">W3 Schools</a></p><br>
    <p><a href="https://www.google.com/" target="_blank">GOOGLE</a></p><br>
  </body>
</html>
```

Output:



27. Create an HTML page to explain the use of various predefined functions in a string and math object in java script.

Code:

```
<html>
  <body>
    <label>Enter a string:</label><br>
      <input type="text" name="str" id="str1"><br><br>
    <label>enter number</label>
      <input type="text" name="text1" id="id1"><br><br>
    <label>enter power</label>
      <input type="text" name="text2" id="id2">
  <script language="javascript" type="text/javascript">
    function add()
    {
      var a,b,c,n,m,i,s,sl,sli;
      s=(document.getElementById("str1").value);
      sl=s.length;
      sli=s.slice(5,11);
      a=(document.getElementById("id1").value);
      b=(document.getElementById("id2").value);
      c=Math.pow(a,b);
      n=Math.sqrt(a);
      m=Math.ceil(a);
      i=Math.floor(a);

      (document.getElementById("strlen").value)=sl;
      (document.getElementById("strsli").value)=sli;
      (document.getElementById("ans").value)=c;
      (document.getElementById("sqr").value)=n;
      (document.getElementById("ceil").value)=m;
      (document.getElementById("floor").value)=i;
    }
  </script>
  <br><br>
  <button onclick="add()">Get Result</button>
  <br><br>
  <label>Length of the String :</label>
    <input type="text" id="strlen"><br><br>
  <label>Slice String :</label><br>
    <input type="text" id="strsli"><br><br>
  <label><b><u>Power of a number</u></b></label><br>
    <input type="text" id="ans"><br><br>
  <label><b><u>Squareroot of the number</u></b></label><br>
    <input type="text" id="sqr"><br><br>
  <label><b><u>Ceil of the number</u></b></label><br>
    <input type="text" id="ceil"><br><br>
```

```
<label><u><b>floor of the number</b></u></label><br>
    <input type="text" id="floor">
</body>
</html>
```

Output:

Enter a string:

anjala

enter number

2

enter power

7

Get Result

Length of the String :

6

Slice String :

a

Power of a number

128

Squareroot of the number

1.4142135623730951

Ceil of the number

2

floor of the number

2

28. Generate the calendar using JavaScript code by getting the year from the user.

Code:

```
<html>
  <body>
    YEAR : <input type="text" id="year_get"><br><br>
    MONTH (1 - 12): <input type="text" id="month_get"><br>
    <input type="button" id="subtn" value="Display Calender" onclick="generate()" ><br><br><br>
    <div id="content"> </div>
  </body>
</script>
  function generate()
  {
    var init_content = "<table BORDER=1
id='calender'><tr><th>Sun</th><th>Mon</th><th>Tue</th><th>Wed</th><th>Thu</th><th>Fri</th><th>Sat</th></tr>
><tr>"

    var year_get = document.getElementById("year_get").value;
    var month_get = document.getElementById("month_get").value;
    month_get -=1;
    var date = new Date(year_get,month_get);
    var day = date.getDay();
    for (var i = 0; i < day; i++){
      init_content += "<td></td>";
    }
    while (date.getMonth() == month_get)
    {
      init_content += "<td>" + date.getDate() + "</td>";
      if (date.getDay() == 6)
      {
        init_content += "</tr><tr>";
      }
      date.setDate(date.getDate() + 1);
    }
    init_content += "</table>"
    document.getElementById("content").innerHTML = init_content;
  }
</script>
</html>
```

Output:

YEAR :

MONTH (1 - 12):

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

29. Create a HTML registration form and to validate the form using JavaScript code.**Code:**

```

<html>
  <head>
    <script type="text/javascript">
      function check()
      {
        if(document.getElementById('name').value == "")
          alert("Please enter your name");
        if(document.getElementById('user').value == "")
          alert("Please enter a username");
        var email = document.getElementById('mail');
        var filter = /^[a-zA-Z0-9_\. \- ]+\@((([a-zA-Z0-9 \- ]+\.)+([a-zA-Z0-9]{2,4})+$)/;
        if (!filter.test(email.value))
        {
          alert('Please enter a valid email address');
        }
        if((document.getElementById('pswd').value == "") &&
(document.getElementById('cpswd').value == ""))
          alert("Please enter your password");
        if((document.getElementById('pswd').value) !=
(document.getElementById('cpswd').value))
          alert("Password does not match");
      }
    </script>
  </head>
  <body>
    <center>
      <form>
        <u><h1>REGISTRATION</h1></u>
        Name : <input type="text" id="name"><br><br>
        Username : <input type="text" id="user"><br><br>
        Email : <input type="text" id="mail"><br><br>
        Password : <input type="password" id="pswd"><br><br>
        Confirm password : <input type="password" id="cpswd"><br><br>
        <input type="submit" id="submit" onclick="check()">&nbsp;&nbsp;&nbsp;<input type="reset">
      </form>
    </center>
  </body>
</html>

```

Output:

This page says
Please enter a valid email address

OK

Email :

Password :

Confirm password :

Submit

Reset

This page says
Password doesnot match

OK

Email :

Password :

Confirm password :

Submit

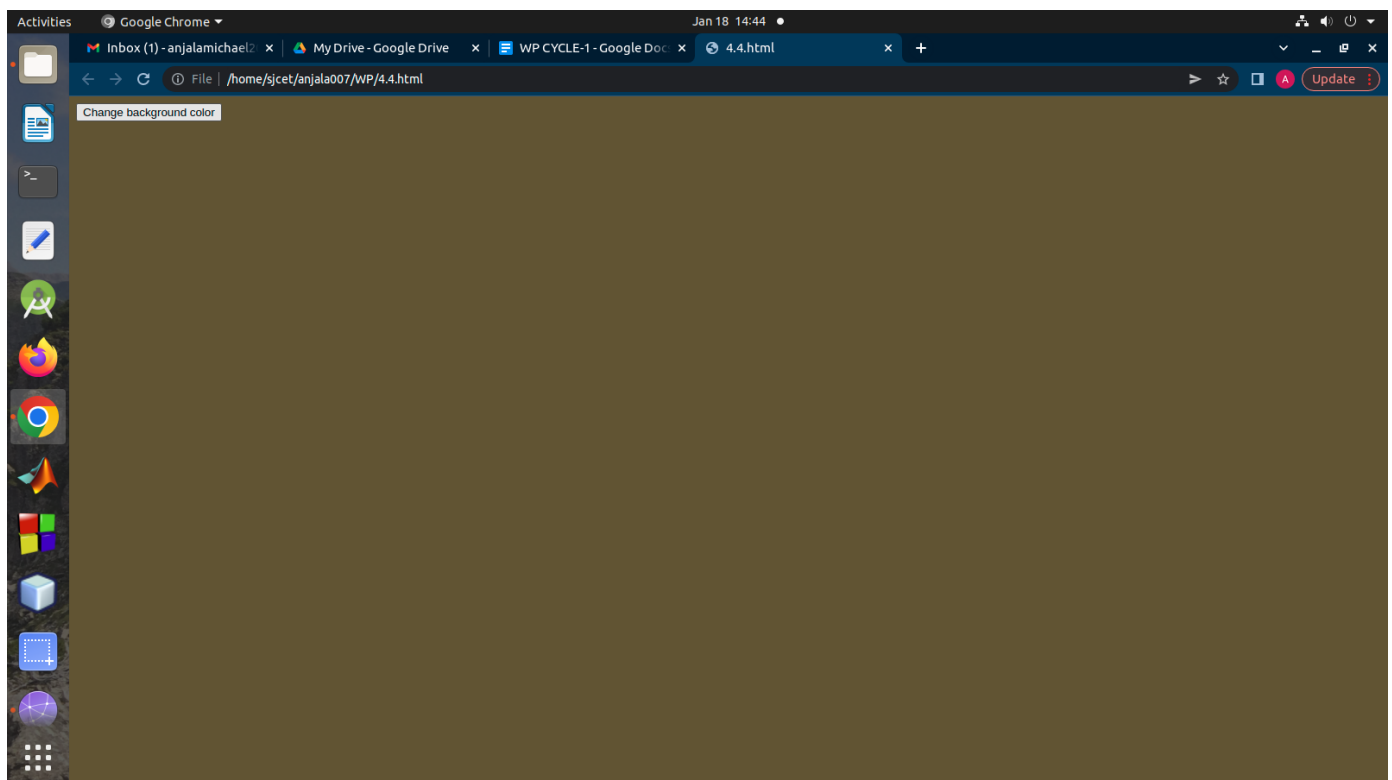
Reset

30. Evaluating JavaScript Event Handling for every click of a button to change the background color of a HTML page.

Code:

```
<html>
<body>
<script>
function change()
{
var color = "#" + Math.random().toString(16).slice(2,8);
document.body.style.backgroundColor = color;
}
</script>
<button type="submit" onclick="change()">Change background color</button>
</body>
</html>
```

Output:

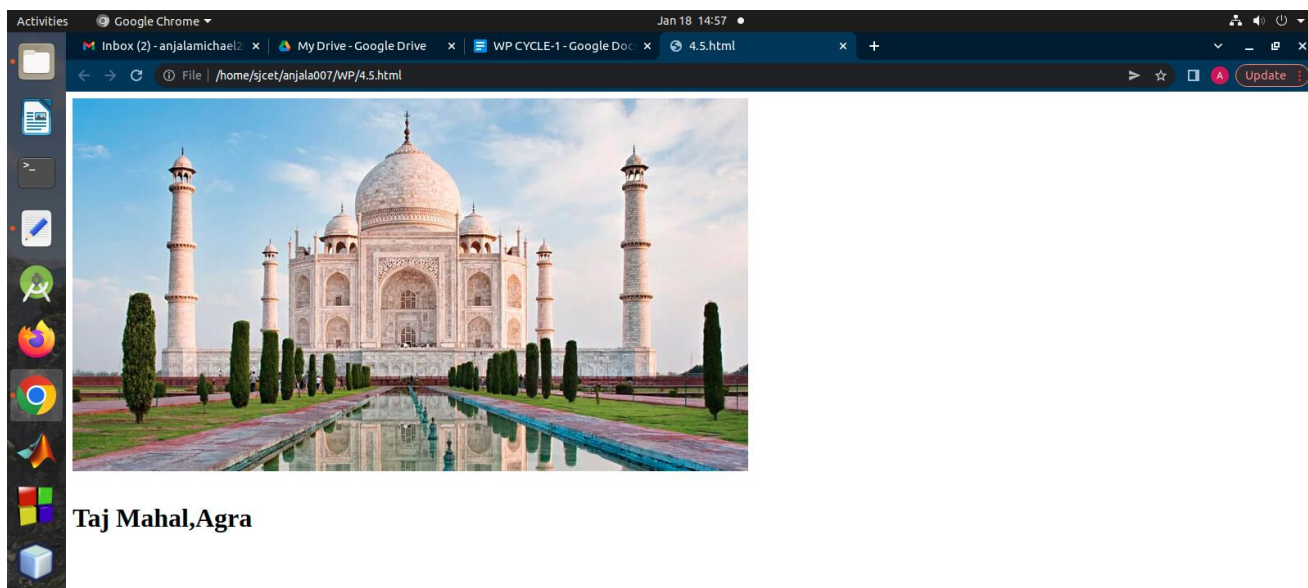


31. Create a HTML page to display a new image and text when the mouse comes over the existing content in the page using JavaScript Event Handling.

Code:

```
<html >
<body>
<div class="a" id="a">
<br><br>
<h1 id="text1">Taj Mahal,Agra</h1>
<h1 id="text2">The colosseum,Rome</h1>
</div>
<script>
document.getElementById("a").addEventListener("mouseover",ab);
document.getElementById("a").addEventListener("mouseout",bc);
function ab() {
document.getElementById('image').src = "colosseum.jpeg";
document.getElementById('text1').style.display="none";
document.getElementById('text2').style.display="block"
}
function bc() {
document.getElementById('image').src = "taj.jpeg";
document.getElementById('text1').style.display="block";
document.getElementById('text2').style.display="none";
}
</script>
</body>
</html>
```

Output:



32. Create a HTML page to show online exams using JavaScript.

Code:

```
<html>
<head>
<script type="text/javascript">
var i=0;
function exam()
{
if(document.f1.n1[0].checked)
i=i+1;
if(document.f1.n2[0].checked)
i=i+1;
alert("your score is"+i+"/2");
}
</script>
</head>
<body>
<h2>Online Exam</h2>
<form name="f1">
<h3>spelling of 2</h3>
<input type="radio" id="2" name="n1" value="two">two
<input type="radio" id="2" name="n1" value="tow">tow
<h3>which is odd number</h3>
<input type="radio" id="1" name="n2" value="1">1
<input type="radio" id="1" name="n2" value="2">2
<br>
<br>
<input type="submit" value="Submit" onclick="exam()">
</form>
</body>
</html>
```

Output:

Online Exam

spelling of 2

☐ two ☒ tow

which is odd number

☒ 1 ☐ 2

This page says
your score is1/2

OK

33. Outline a registration form using PHP and do necessary validations.

Code:

```
<html>
<body>
<h1>Registration form</h1>
<form action = "" method = "POST">
Username : <input type="text" name="username"><br> <br>
Email : <input type="text" name="email"><br> <br>
Password : <input type="text" name="pass"><br> <br>
Confirm password : <input type="text" name="cpass"><br> <br>
<input type="submit" value="Register">

<?php
if (empty($_POST['username']) ||
empty($_POST['pass']) ||
empty($_POST['email']) ||
empty($_POST['cpass']))
{
die("Please fill all required fields!");
}
if ($_POST['pass'] != $_POST['cpass'])
{
die ('Password and confirm password should match');
}
else
{
die("successfull");
}
?>
</form>
</body>
</html>
```

Output:

Registration form

Username :

Email :

Password :

Confirm password :

Please fill all required fields!

Registration form

Username :

Email :

Password :

Confirm password :

successfull

34. Compose Electricity bill from user input based on a given tariff using PHP.**Code:**

```
<html>
<head>
<title>Electricity Bill</title>
</head>
<?php
$result_str = $result = "";
if (isset($_POST['unit-submit'])) {
    $units = $_POST['units'];
    if (!empty($units)) {
        $result = calculate_bill($units);
        $result_str = 'Total amount of ' . $units . ' - ' . $result;
    }
}

function calculate_bill($units) {
    $unit_cost_first = 3.50;
    $unit_cost_second = 4.00;
    $unit_cost_third = 5.20;
    $unit_cost_fourth = 6.50;
    if($units <= 50) {
        $bill = $units * $unit_cost_first;
    }
    else if($units > 50 && $units <= 100) {
        $temp = 50 * $unit_cost_first;
        $remaining_units = $units - 50;
        $bill = $temp + ($remaining_units * $unit_cost_second);
    }
    else if($units > 100 && $units <= 200) {
        $temp = (50 * 3.5) + (100 * $unit_cost_second);
        $remaining_units = $units - 150;
        $bill = $temp + ($remaining_units * $unit_cost_third);
    }
    else {
        $temp = (50 * 3.5) + (100 * $unit_cost_second) + (100 * $unit_cost_third);
        $remaining_units = $units - 250;
        $bill = $temp + ($remaining_units * $unit_cost_fourth);
    }
    return number_format((float)$bill, 2, '.', '');
}
?>
<body>
<div id="page-wrap">
<h1>Electricity Bill</h1>
<form action="" method="post" id="quiz-form">
<input type="number" name="units" id="units" placeholder="Please enter no.of Units" />
<input type="submit" name="unit-submit" id="unit-submit" value="Submit"/>
```

```
</form>
<div>
<?php echo '<br />' . $result_str; ?>
</div>
</div>
</body>
</html>
```

Output:

Electricity Bill

Total amount of 25 - 87.50

35. Build a PHP code to store name of students in an array and display it using print_r function. Sort and Display the same using asort & arsort functions.

Code:

```
<?php
$a = array("Anjala", "Christeena", "Blessey","Angela");
print_r($a);
echo("<br>Ascending order : ");
asort($a);
print_r($a);
echo("<br>Descending order : ");
arsort($a);
print_r($a);
?>
```

Output:

```
Array ( [0] => Anjala [1] => Christeena [2] => Blessey [3] => Angela )
Ascending order : Array ( [3] => Angela [0] => Anjala [2] => Blessey [1] => Christeena )
Descending order : Array ( [1] => Christeena [2] => Blessey [0] => Anjala [3] => Angela )
```

36. Build a PHP code to store name of Indian Cricket players in an array and display the same in HTML table.

Code:

```
<?php
$cricket=array(array('M S Dhoni',40),
array('Virat Kohli',33),
array('Sachin Tendulkar',48),
array('Rohit Sharma',36),
array('Sanju Samson',28));
?>
<html>
<table border="1"><tr><th>Name</th><th>Age</th></tr>
<tr><td><?php echo $cricket[0][0] ?></td><td><?php echo $cricket[0][1]?></td></tr>
<tr><td><?php echo $cricket[1][0] ?></td><td><?php echo $cricket[1][1]?></td></tr>
<tr><td><?php echo $cricket[2][0] ?></td><td><?php echo $cricket[2][1]?></td></tr>
<tr><td><?php echo $cricket[3][0] ?></td><td><?php echo $cricket[3][1]?></td></tr>
<tr><td><?php echo $cricket[4][0] ?></td><td><?php echo $cricket[4][1]?></td></tr>
</table>
</html>
```

Output:

Name	Age
M S Dhoni	40
Virat Kohli	33
Sachin Tendulkar	48
Rohit Sharma	36
Sanju Samson	28

37. Develop a PHP program to connect to a database and retrieve data from a table and show the details in a neat format.**Code:****Config.php**

```
<?php
$mysql_host="localhost";
$mysql_user="22mca007";
$mysql_password="2547";
$conn=mysqli_connect($mysql_host,$mysql_user,$mysql_password);
if(mysqli_select_db($conn,'22mca007'))
{echo 'connected';}
else{echo 'falied';}
?>
```

Reg.php

```
<?php
include "config.php";
if(isset($_POST['submit']))
{
$name=$_POST['name'];
$email=$_POST['email'];
$password=$_POST['password'];
$sql = "INSERT INTO `local` ( `name`, `email`, `password`) VALUES ( '$name', '$email', '$password')";
$result=$conn->query($sql);
if($result==TRUE)
{
echo "new record created successfully";
}
else
{
echo "Error".$sql."<br>".$conn->error;
}
$conn->close();
}
?>
<html>
<body>
<h2> Signup Form </h2>
<form action="" method="POST">
<fieldset>
<legend> Personal Information </legend>
First Name:<br>
<input type="text" name="name">
<br>
Email:<br>
```

```
<input type="email" name="email">
<br>
Password:<br>
<input type="password" name="password">
<br><br>
<input type="submit" name="submit" value="submit">
<br>
<a href="view.php" >VIEW DATA</a>
</fieldset>
</body>
</html>
```

view.php

```
<?php
include "config.php";
$sql = " SELECT * FROM `local` " ;
$result=$conn->query($sql);
?>
<html>
<head>
<title>view page</title>
</head>
<body>
<div class="container">
<h2>VIEW</h2>
<table border="1">
<tr>
<th>sino</th>
<th>Name</th>
<th>Email</th>
<th>Password</th>
</tr>
<?php
if($result->num_rows>0)
{
while($row=$result->fetch_assoc())
{
?>
<tr>
<td><?php echo $row['sino'];?></td>
<td><?php echo $row['Name'];?></td>
<td><?php echo $row['Email'];?></td>
<td><?php echo $row['password'];?></td>
<?php
}
}
?>
</table>
</html>
```


Output:

connected

new record created successfully

connected

Signup Form

Personal Information

First Name:

Email:

Password:

submit

VIEW DATA

Signup Form

Personal Information

First Name:

anjala michael

Email:

anjalamichaelk@gmail.com

Password:

...

submit

VIEW DATA

connected

VIEW

sino	Name	Email	Password
1	anjala michael	anjalamichaelk@gmail.com	123
2	anjala michael	anjalamichael2024@mca.sjcetpalai.ac.in	456

38. Using PHP and MySQL, develop a program to accept book information viz. Accession number, title, authors, edition and publisher from a web page and store the information in a database and to search for a book with the title specified by the user and to display the search results with proper headings.

Code:

bookconnect.php

```
<?php
$mysql_host='localhost';
$mysql_user='22mca007';
$mysql_password='2547';
$conn=mysqli_connect($mysql_host,$mysql_user,$mysql_password);
if(mysqli_select_db($conn,'22mca007'))
{echo 'connection successful';
}
else{
echo 'connection failed';
}
?>
```

insert.php

```
<?php
include "bookconnect.php";
if(isset($_POST['submit']))
{
$ano=$_POST['ano'];
$title=$_POST['title'];
$author=$_POST['author'];
$edition=$_POST['edition'];
$publisher=$_POST['publisher'];
$sql = "INSERT INTO `books` ( `ano`,`title`,`author`,`edition`,`publisher`)
VALUES ( '$ano','$title','$author','$edition','$publisher')";
$result=$conn->query($sql);
if($result==TRUE)
{
echo "new record created successfully";
}
else
{
echo "Error".$sql."<br>".$conn->error;
}
$conn->close();
}
?>
<html>
<head>
<title>newcustomer</title>
</head>
```

```

<body>
<form method="POST" action="">
<h1>Register</h1><br>
Ano<br>
<input type="text" name="ano" required><br>

<br>
Title<br>
<input type="text" name="title" required><br>
Author<br>
<input type="text" name="author" required><br>
Edition<br>
<input type="text" name="edition" required><br>
Publisher<br>
<input type="text" name="publisher" required>
<br>
<input type="submit" name="submit"
value="register"><br><br><br><br><br>
<a href="booksearch.php" >VIEW DATA</a>
</form>
</body>
</html>

```

booksearch.php

```

<?php
require "bookconnect.php";
if(isset($_POST['sub']))
{ $bookhead=$_POST['btitle'];
$store = "SELECT * FROM `books` WHERE `title` = '$bookhead'";
$result=$conn->query($store);
if($result=mysqli_query($conn,$store))
{
while($query_execute=mysqli_fetch_assoc($result))
{
?><table border="1"><tr><th>sino</th><th>title</th><th>author</th><th>edition</th><th>publisher</th></tr>
<tr><td><?php echo $query_execute["ano"];?></td>
<td><?php echo $query_execute["title"];?></td>
<td><?php echo $query_execute["author"];?></td>
<td><?php echo $query_execute["edition"];?></td>
<td><?php echo $query_execute["publisher"];?></td></tr></table>
<?php }
}$con->close();
}
?>
<html>
<head>
<title>book search</title>
</head>
<body><form method="POST" action="">
<label>enter the title</label>

```

```
<input type="text" name="btitle">
<input type="submit" name="sub" value="submit">
<a href="insert.php" >ADD DATA</a>
</form>
</body>
</html>
```

Output:

connection successfulnew record created successfully

Register

Ano

Title

Author

Edition

Publisher

[VIEW DATA](#)

connection successful

sino	title	author	edition	publisher
1	Programming in C	E. Balaguruswammy	3	Mc Growhill