

# Q1. Construct the following HTML page using different HTML tags.

Community Courses -- Bath Autumn 1997		
Course Name	Course Tutor	Summary
After the Civil War	Dr. John Wroughton	The course will examine the turbulent years in England after 1646. 6 weekly meetings starting Monday 13th October.
An Introduction to Anglo-Saxon England	Mark Cottle	One day course introducing the medieval period reconstruction Anglo-Saxons and their life. 18th October.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Community Courses -- Bath Autumn 1997</title>
</head>
<body>

  <h2 style="text-align: center;">Community Courses -- Bath Autumn
  1997</h2>

  <table border="1" cellpadding="5" cellspacing="0" width="100%">
    <tr>
      <th>Course Name</th>
      <th>Course Tutor</th>
      <th>Summary</th>
      <th>Code</th>
      <th>Fee</th>
    </tr>
    <tr>
      <td>After the Civil War</td>
      <td>Dr. John Wroughton</td>
      <td>The course will examine the turbulent years in England after 1646.
      6 weekly meetings starting Monday 13th October.</td>
      <td>H27</td>
      <td>£32</td>
    </tr>
  </table>
</body>
```

```

</tr>
<tr>
    <td>An Introduction to Anglo-Saxon England</td>
    <td>Mark Cottle</td>
    <td>One day course introducing the early medieval period  

reconstruction the Anglo-Saxons and their society. Saturday 18th October. </td>
    <td>H28</td>
    <td>£18</td>
</tr>
<tr>
    <td>The Glory that was Greece</td>
    <td>Valerie Lorenz</td>
    <td>Birthplace of democracy, philosophy, heartland of theater, home of  

argument. The Romans may have done it but the Greeks did it first. Saturday  

day school 25th October 1997. </td>
    <td>H30</td>
    <td>£18</td>
</tr>
</table>

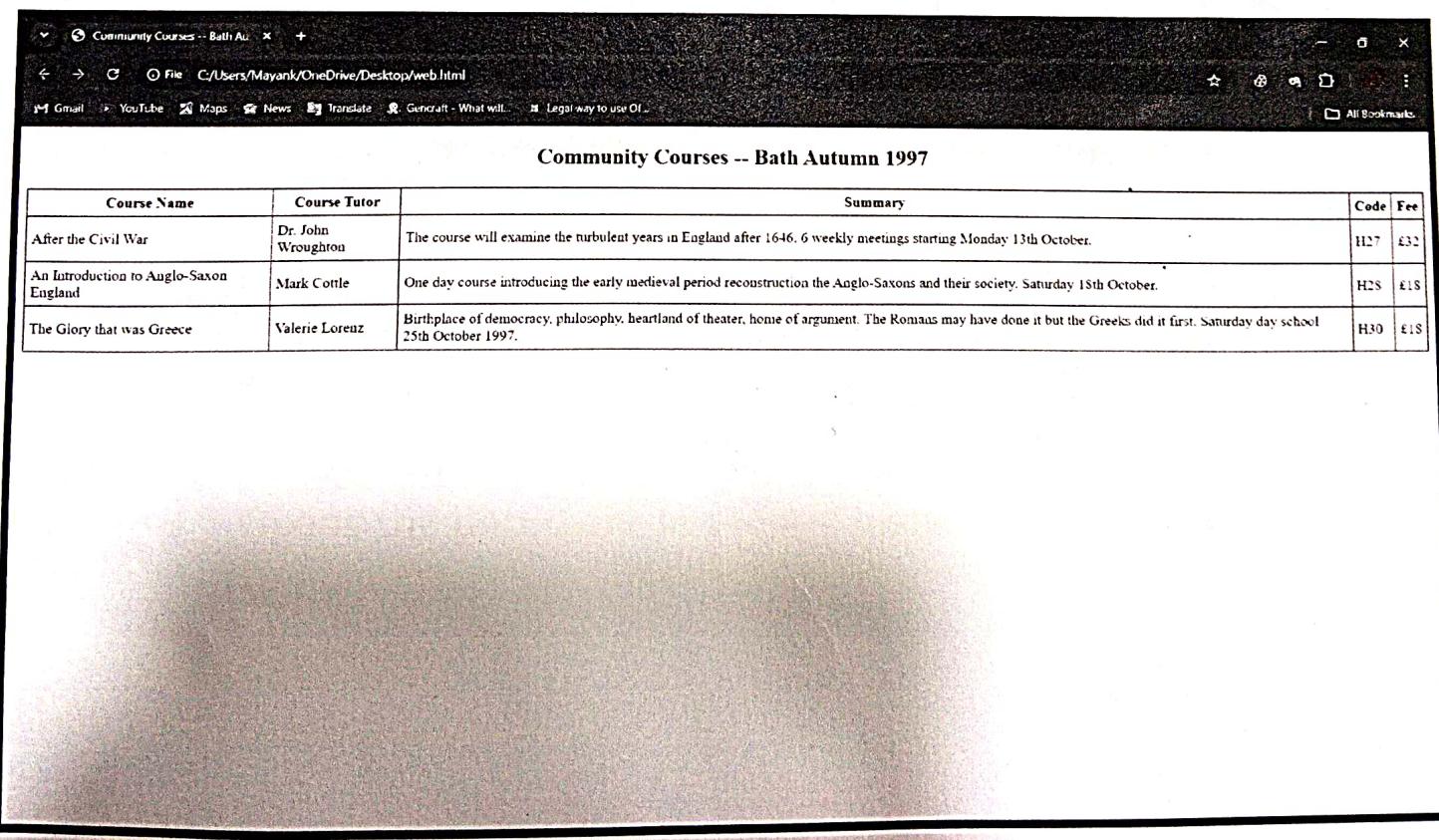
```

```

</body>
</html>

```

## Output:



Course Name	Course Tutor	Summary	Code	Fee
After the Civil War	Dr. John Wroughton	The course will examine the turbulent years in England after 1646. 6 weekly meetings starting Monday 13th October.	H27	£32
An Introduction to Anglo-Saxon England	Mark Cottle	One day course introducing the early medieval period reconstruction the Anglo-Saxons and their society. Saturday 18th October.	H28	£18
The Glory that was Greece	Valerie Lorenz	Birthplace of democracy, philosophy, heartland of theater, home of argument. The Romans may have done it but the Greeks did it first. Saturday day school 25th October 1997.	H30	£18

**Q2. Elaborate hyperlink? How is it used in HTML to enhance the working and connectivity? Explain the different types of hyperlinks in detail.**

### **What is a Hyperlink?**

A **hyperlink** (or simply a link) is a reference or navigation element in HTML that allows users to jump from one location (page, section, document) to another. It's one of the foundational features of the World Wide Web, enabling users to explore related content easily by clicking or tapping on a link.

### **How Hyperlinks are Used in HTML?**

In HTML, hyperlinks are created using the `<a>` (anchor) tag. The `href` (Hypertext REFerence) attribute defines the destination (URL) of the link. Hyperlinks help to connect various pages or sections of a website, navigate users to different websites, and download resources like files.

#### **Basic Syntax of a Hyperlink:**

`<a href="URL"> Link Text </a>`

Hyperlinks are used for enhance working and connectivity by Navigation, Connectivity, Cross-Referencing, User Experience.

### ***HTML Links - The target Attribute***

By default, the linked page will be displayed in the current browser window. To change this, you must specify another target for the link.

The `target` attribute specifies where to open the linked document.

The `target` attribute can have one of the following values:

- `_self` - Default. Opens the document in the same window/tab as it was clicked
- `_blank` - Opens the document in a new window or tab
- `_parent` - Opens the document in the parent frame
- `_top` - Opens the document in the full body of the window

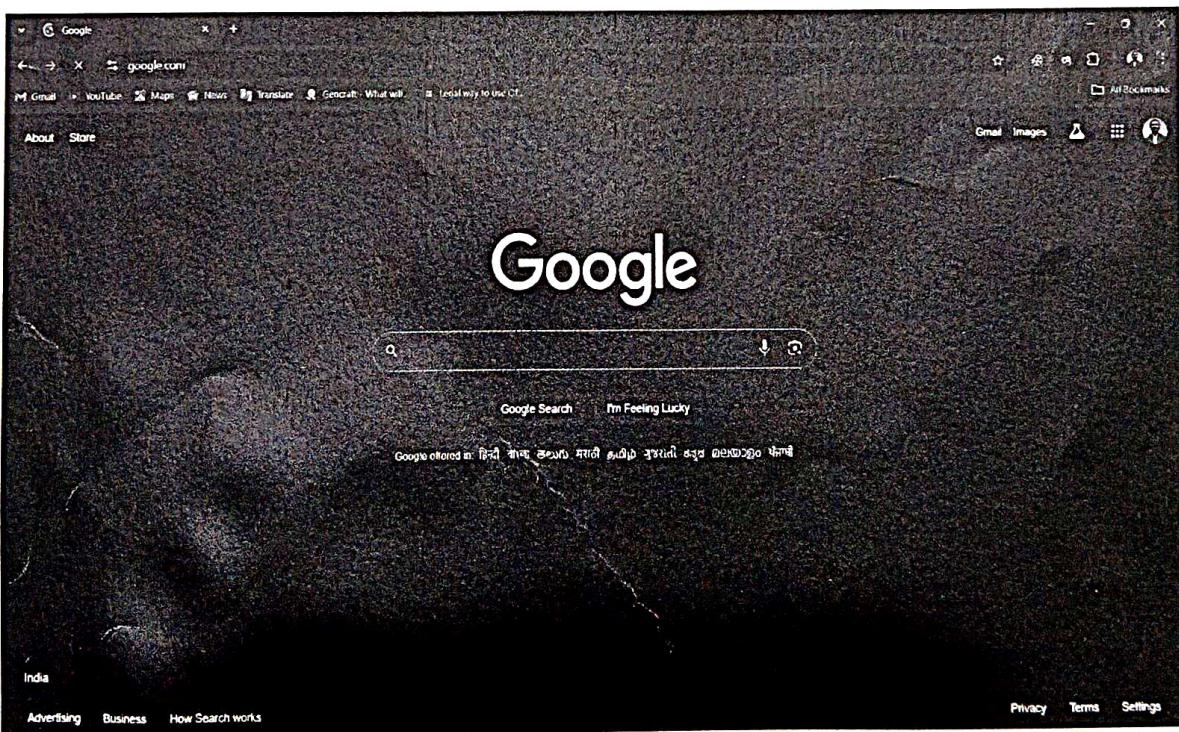
## Types of Hyperlinks in HTML

### 1. Text Hyperlinks:

The most common type of hyperlink, where a piece of text acts as the clickable link.

```
<a href="https://www.google.com">Google</a>
```

When users click on the text "Google", it will take them to the URL specified.

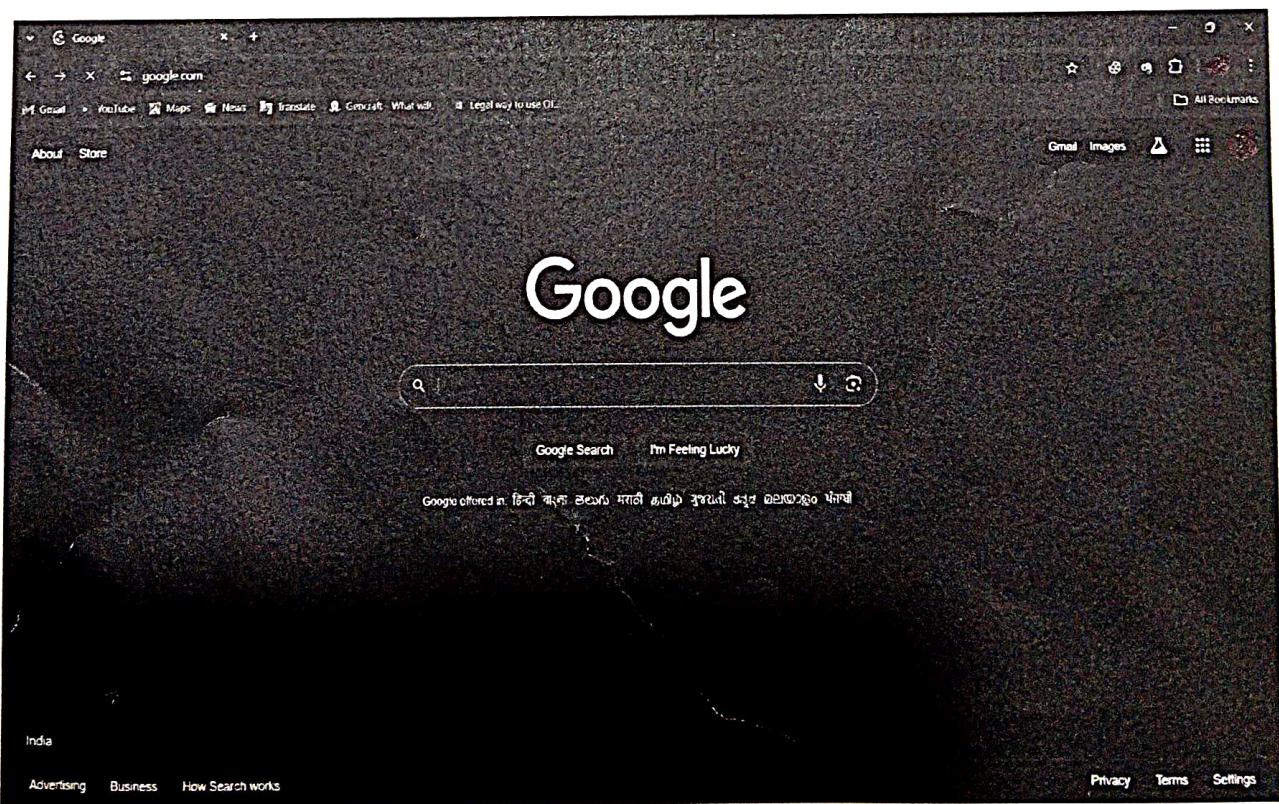
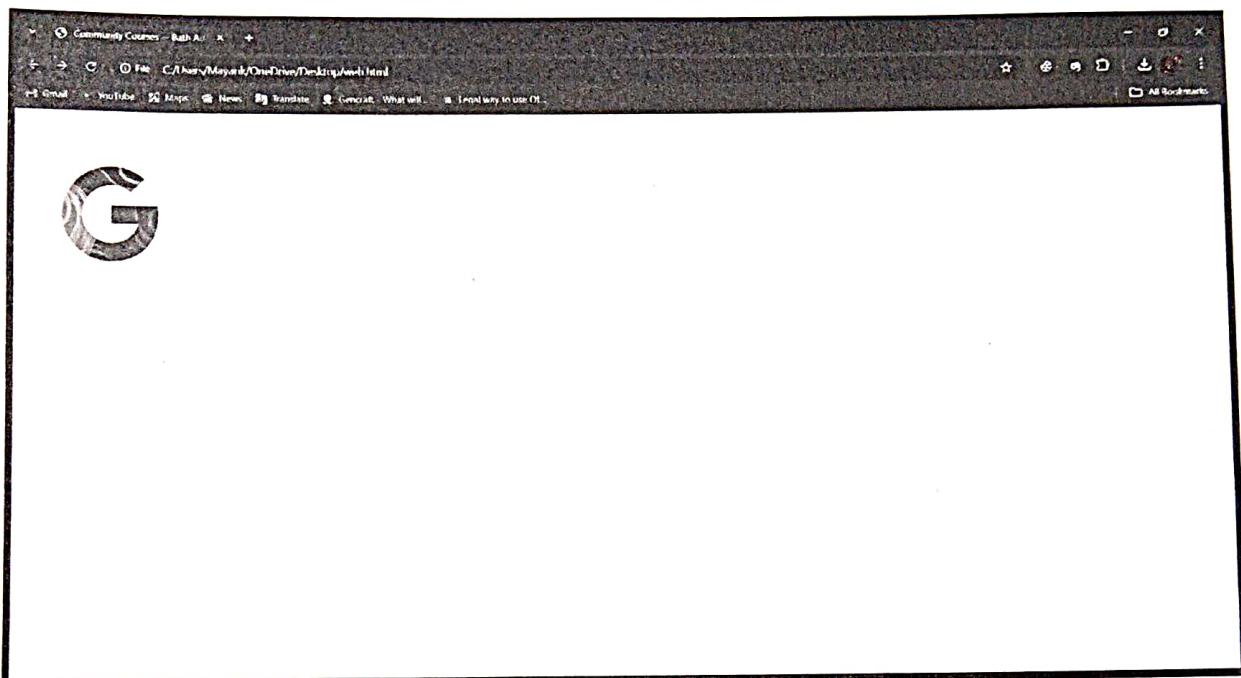


## 2. Image Hyperlinks:

Images can also be used as clickable links. This is useful for banners, logos, or buttons that lead to another page.

```
<a href="https://www.example.com"> </a>
```

Images can also be used as clickable links. This is useful for banners, logos, or buttons that lead to another page.

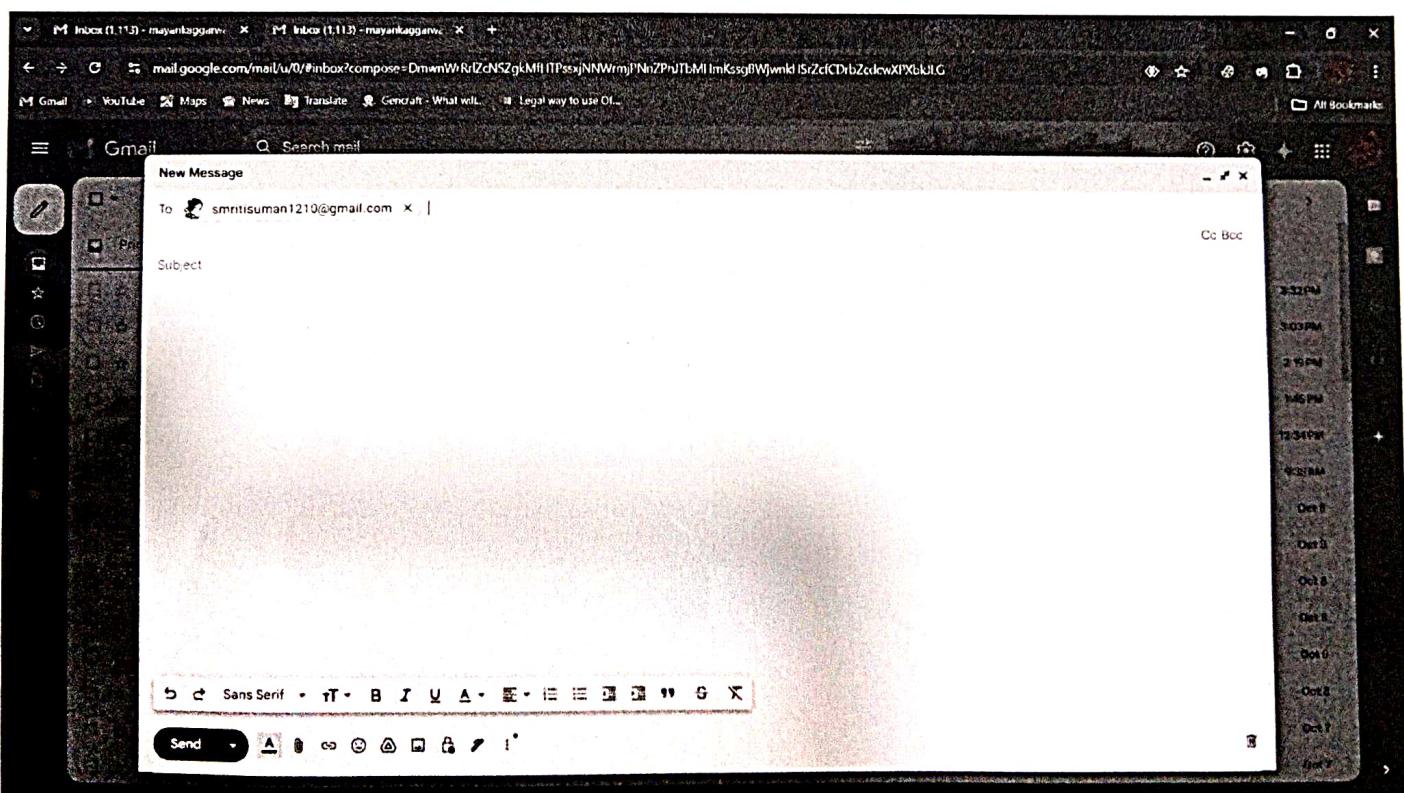


### 3. Email Hyperlinks:

Links that automatically open the user's default email client and begin composing an email to a predefined address.

<u><a href="mailto: smritisuman1210@gmail.com">Email Us</a>

Clicking this will open the email app with the "To" field filled with "someone@example.com".

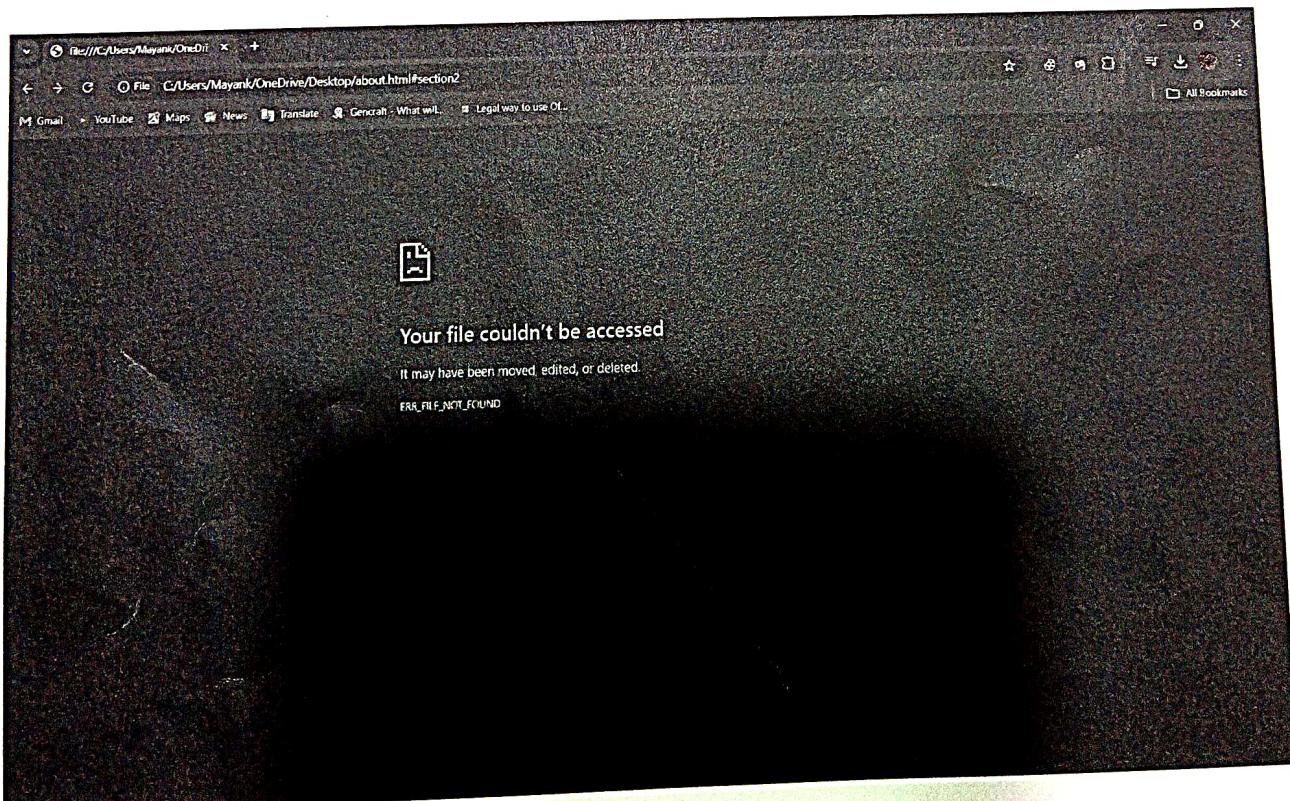
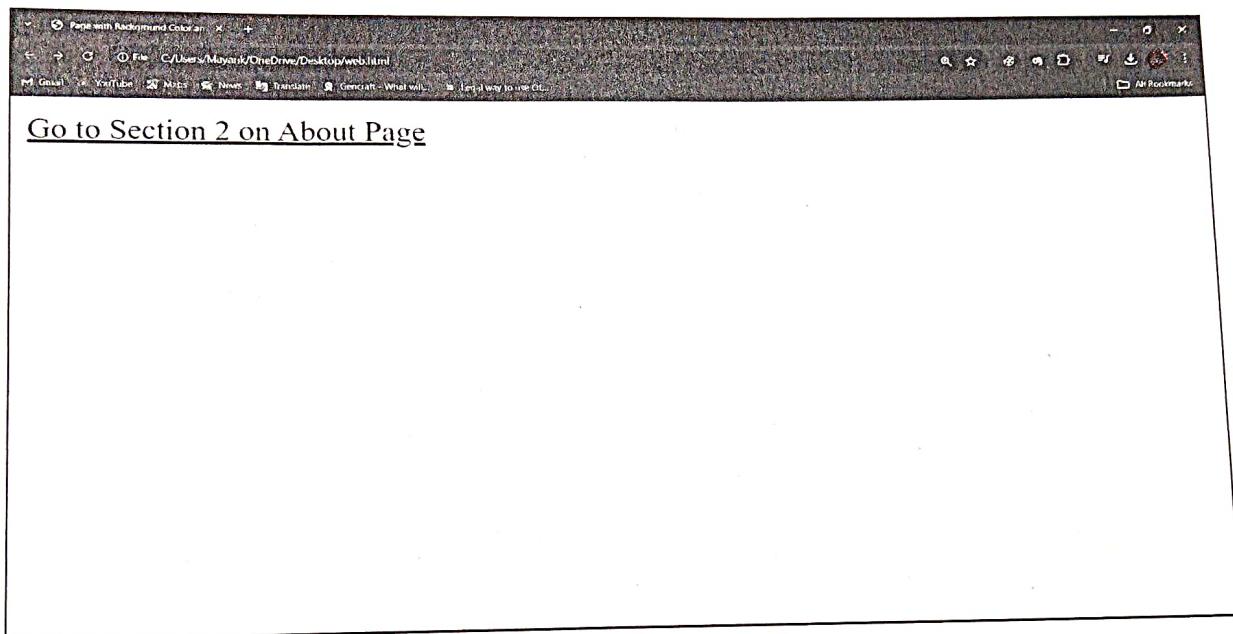


#### 4. Anchor Links (Internal Links):

These links help the user navigate to different sections within the same webpage or a specific section of another page. Anchors are identified by the `id` attribute.

```
<a href="about.html#section2">Go to Section 2 on About Page</a>
```

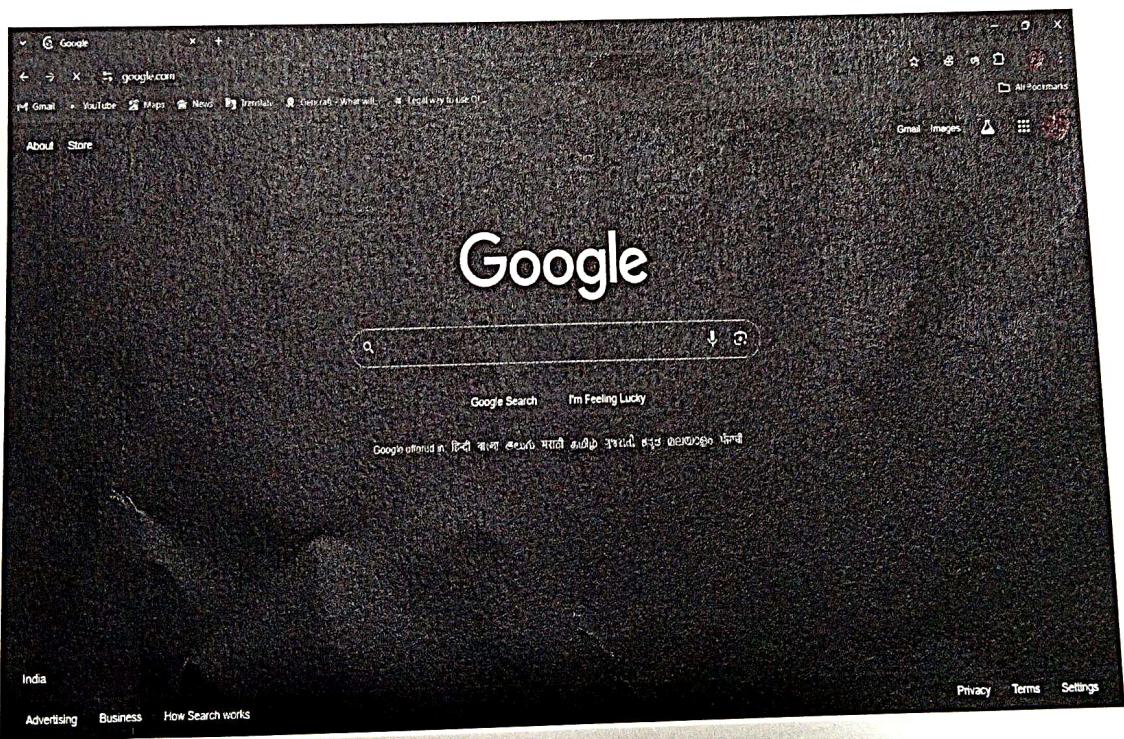
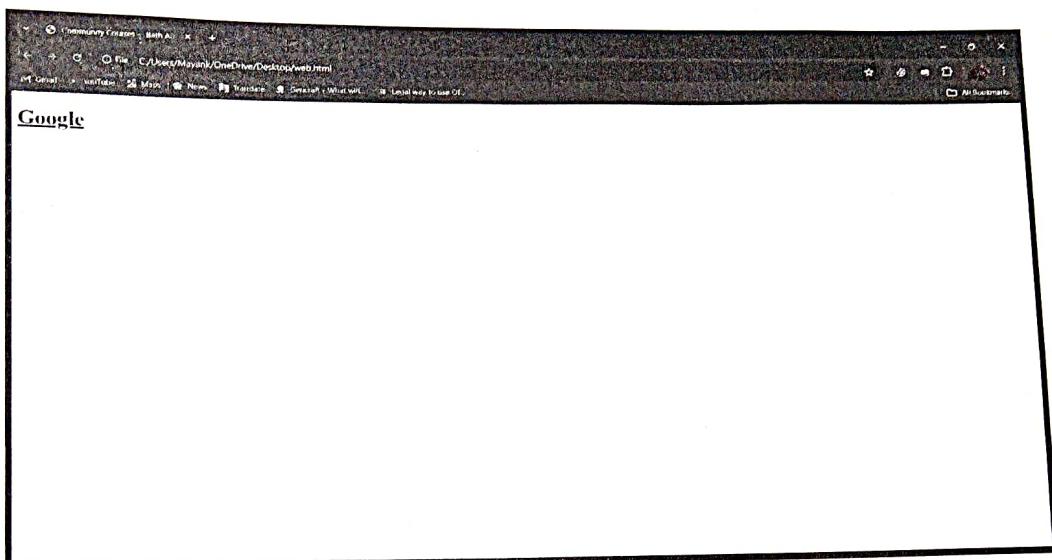
Clicking this will take the user to a specific section on another webpage (in this case, `about.html`).



## 5. Absolute URLs

Absolute URLs are ideal when linking to a different website or to a resource hosted on a different domain or subdomain.

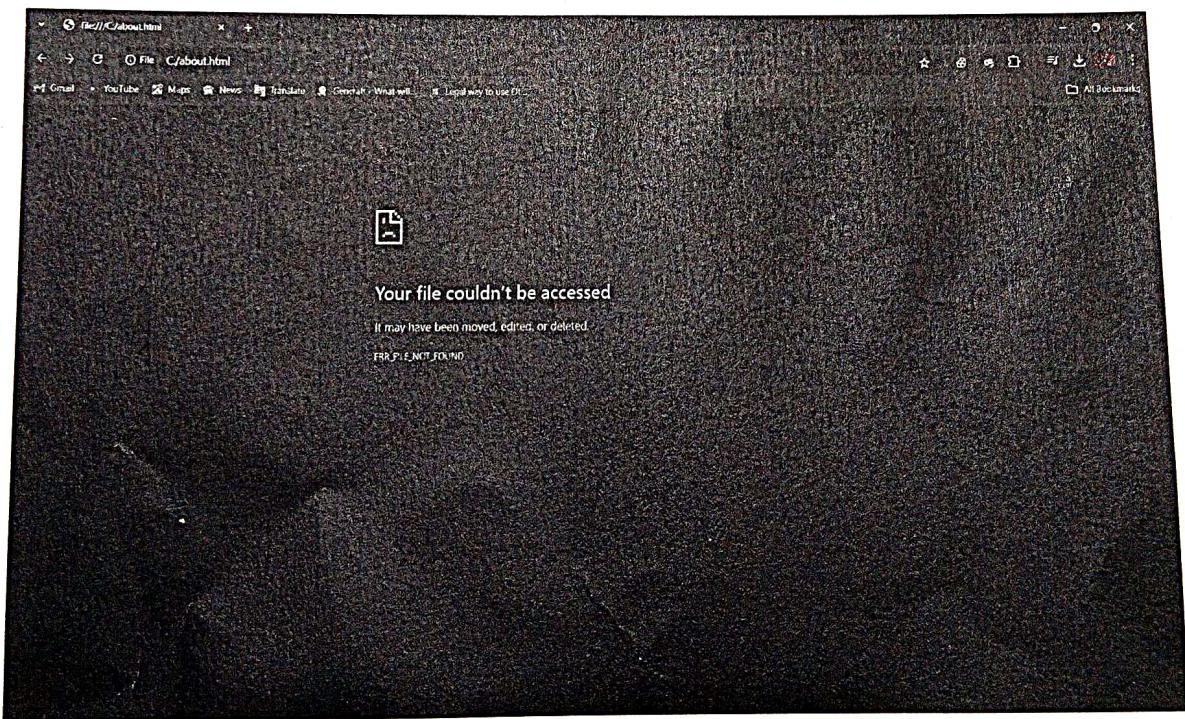
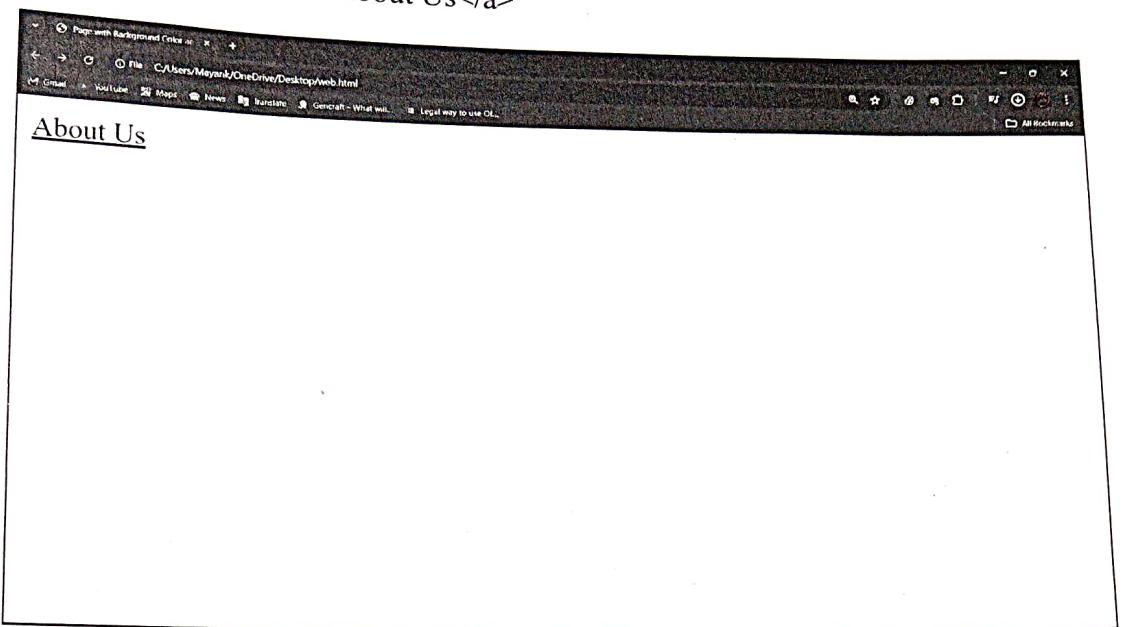
```
<a href="https://www.google.com/">Google</a>
```



## 6. Relative URLs

Relative URLs are ideal when linking to pages or resources within the same website.

```
<a href="/about.html">About Us</a>
```



**Q3 Change the background color of the page. At the bottom create a link to take the user to the top of the page and vice versa**

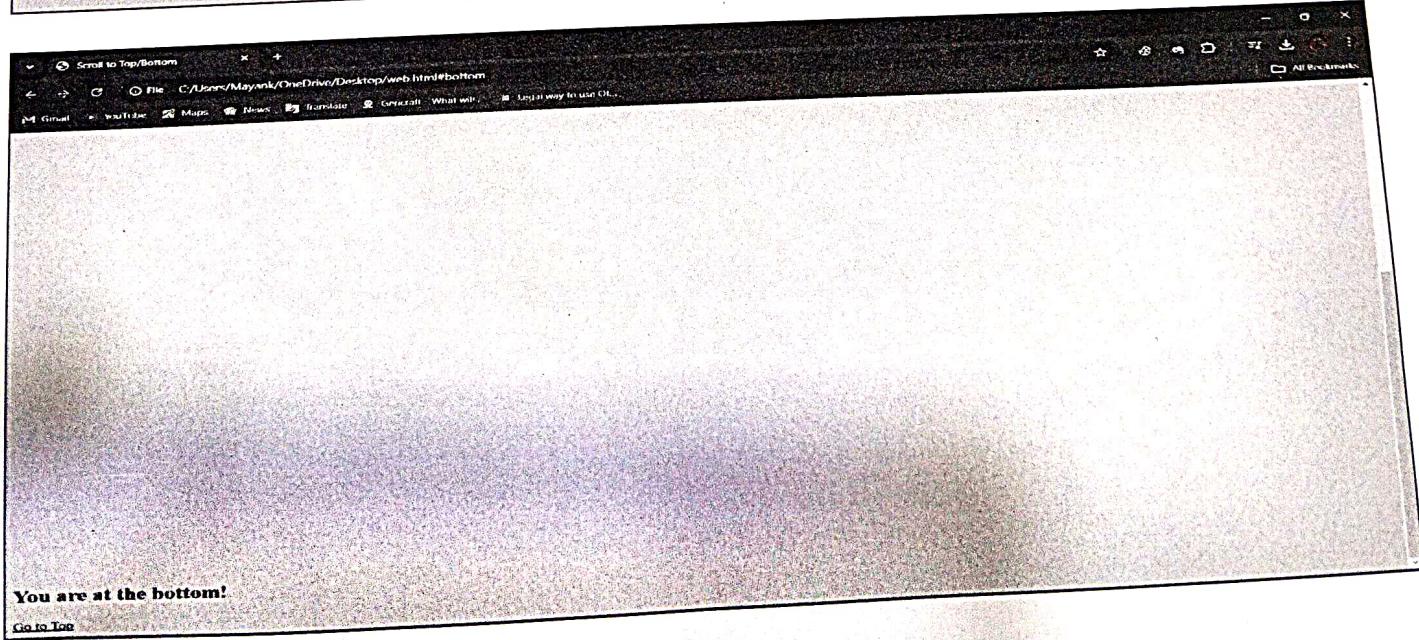
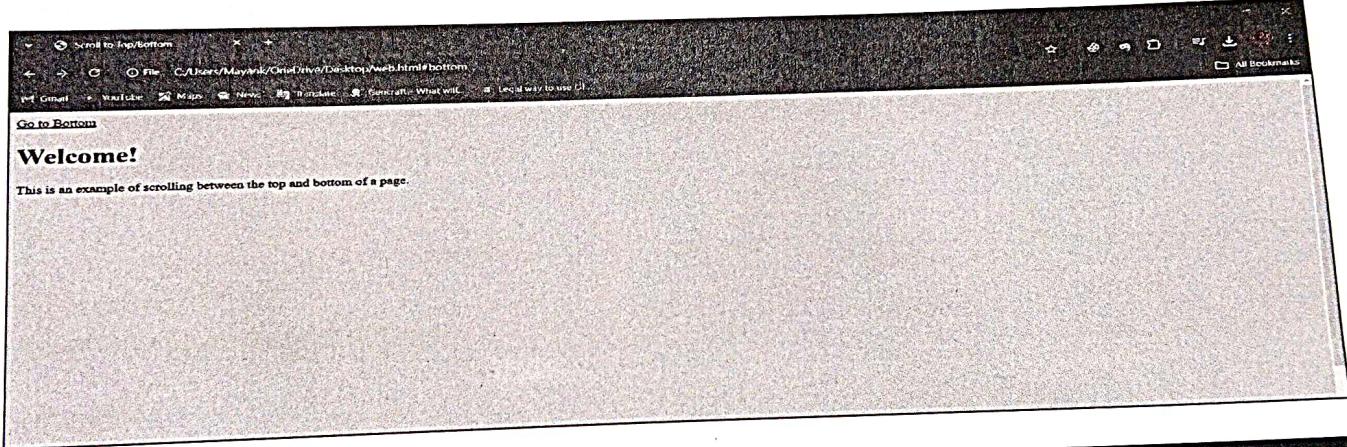
Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Scroll to Top/Bottom</title>
</head>
<body style="background-color: lightblue;">
    <a href="#bottom">Go to Bottom</a>

    <h1>Welcome!</h1>
    <p>This is an example of scrolling between the top and bottom of a page.</p>

    <div style="height: 1000px;"></div>

    <h2 id="bottom">You are at the bottom!</h2>
    <a href="#top">Go to Top</a>
</body>
</html>
```



**Q4. Compare different tags used in the HTML table while creating any web page.**

Tag	Purpose
<table>	Defines the table
<tr>	Defines a row
<th>	Defines a header cell
<td>	Defines a data cell
<caption>	Adds a title to the table
<thead>	Groups header rows
<tbody>	Groups the body content
<tfoot>	Groups footer rows (e.g., totals)

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Scroll to Top/Bottom</title>
</head>
<body>

<table border="1">
    <caption>Sales Report</caption>

    <thead>
        <tr>
            <th>Product</th>
            <th>Sales</th>
        </tr>
    </thead>

    <tbody>
        <tr>
            <td>Product A</td>
            <td>50</td>
        </tr>
        <tr>
            <td>Product B</td>
            <td>30</td>
        </tr>
    </tbody>

```

```
<tfoot>
<tr>
  <td>Total</td>
  <td>80</td>
</tr>
</tfoot>
</table>

</body>
</html>
```



**Q5. Make up a table of data. Your table must have at least four rows and four Columns. It must have at least one Rowspan and one Colspan specifier. (And yes, the attribute's value *must* be greater than one!)**

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Class Schedule</title>
</head>
<body>
    <table border="1">
        <caption>Class Schedule</caption>
        <thead>
            <tr>
                <th>Time</th>
                <th>Monday</th>
                <th>Tuesday</th>
                <th>Wednesday</th>
            </tr>
        </thead>
        <tbody>
            <tr>
                <td>9:00 - 10:00</td>
                <td>Math</td>
                <td>English</td>
                <td>History</td>
            </tr>
            <tr>
                <td>10:00 - 11:00</td>
                <td colspan="2">Science</td> <!-- colspan used here -->
                <td>Art</td>
            </tr>
            <tr>
                <td>11:00 - 12:00</td>
                <td rowspan="2">Physical Education</td> <!-- rowspan used here -->
                <td>Music</td>
                <td>Geography</td>
            </tr>
            <tr>
                <td>12:00 - 1:00</td>
                <td>Computer Science</td>
                <td>Drama</td>
            </tr>
        </tbody>
    </table>
</body>
</html>
```

**Output:**

A screenshot of a Microsoft Edge browser window displaying a class schedule. The title bar reads "Class Schedule". The address bar shows the file path: "C:/Users/Mayanik/OneDrive/Desktop/web.html#bottom". The page content is a table titled "Class Schedule" with four columns: "Time", "Monday", "Tuesday", and "Wednesday". The table has four rows representing time slots from 9:00 - 10:00 to 12:00 - 1:00. The data is as follows:

Time	Monday	Tuesday	Wednesday
9:00 - 10:00	Math	English	History
10:00 - 11:00	Science		Art
11:00 - 12:00		Music	Geography
12:00 - 1:00	Physical Education	Computer Science	Drama