



Graphic Era

HILL UNIVERSITY

Established by an Act of the State Legislature of Uttarakhand (Adhiniyam Sankhya 12 of 2011)

Term Work on

Full Stack Web Development Lab

(PCS-693)

(2022-2023)



Submitted To:

Mr. Samir Rana

Assistant Professor

GEHU, D. Dun

Submitted By:

Vaishnavi Bholane

Student ID: 20012999

CSE-B- VI Sem

Session: 2022-2023

HTML

Program No. 01: Create a HTML program to print the star pattern as shown below.

```
      *
    ***
  *****
*****
*****
*****
```

SOURCE CODE:

```
<!DOCTYPE html>
<html>

<head>
  <title> Star Pattern</title>
</head>
<style>
  p {
    text-align: center;
    font-size: 50px;
  }
</style>

<body>
  <p>
    *<br>
    ***<br>
    *****<br>
    ***** <br>
    *****<br>
    *****
  </p>
</body>

</html>
```

OUTPUT

STAR PATTERN

*

Program No. 02: Create a HTML program to create the following table.

Sr. No.	Courses	Subjects	Marks		Category		Practical/Theory
			Internal	External	Internal	External	
1.	MBA	Management Accounting	30	70	.	✓	Theory
		Information Technology	30	70	.	✓	T and P
		Basics of Marketing	30	70	.	✓	Theory
		E-Commerce	50	.		.	Theory
2.	MCM	Visual Basic	30	70	.	✓	T and P
		Internet Technology	30	70	.	✓	T and P
		Network Technology	30	70	.	✓	Theory
		VB Net	30	70	.	✓	T and P
		Linux	30	70	.	✓	T and P
		ISA	50	.		.	Theory

SOURCE CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=&#x2713;.0">
  <title>Document</title>
</head>
<style>
  table,tr,th,td{
    border: 2px solid black;
    border-collapse: collapse;
  }
  th,td{
    padding: 5px;
  }
  table{
    margin: 150px 50px 25px 400px;
  }
  caption{
    padding-bottom: 20px;
    font-size: 25px;
  }
}
```

</style>

<body>

<table>

<caption> List of Course-wise Subjects </caption>

<tr>

<th rowspan="2">

Sr. No.

</th>

<th rowspan="2">

Course

</th>

<th rowspan="2">

Subjects

</th>

<th colspan="2">

Marks

</th>

<th colspan="2">

Category

</th>

<th rowspan="2">

Practical/Theory

</th>

<tr>

<th> Internal </th>

<th> External</th>

<th> Internal </th>

<th> External</th>

</tr>

</tr>

<tr>

<td rowspan="4">1</td>

<td rowspan="4">MBA</td>

<td>Management Accounting</td>

<td>30</td>

<td>70</td>

<td>.</td>

<td>✓</td>

<td>Theory</td>

</tr>

<tr>

<td>Information technology</td>

<td>30</td>

<td>70</td>

<td>.</td>

<td>✓</td>

<td>T and P</td>

</tr>

<tr>

<td>Basics of Marketing</td>

<td>30</td>

<td>70</td>

<td>.</td>

<td>✓</td>

<td>Theory</td>

</tr>

<tr>

<td>E-Commerce</td>

50	.	✓	.	Theory
----	---	----------	---	--------

2	MCM	Visual Basic	30	70	.	✓	T and P
---	-----	--------------	----	----	---	----------	---------

Internet technology	30	70	.	✓	T and P
---------------------	----	----	---	----------	---------

Network technology	30	70	.	✓	Theory
--------------------	----	----	---	----------	--------

VB Net	30	70	.	✓	T and P
--------	----	----	---	----------	---------

Linux	30	70	.	✓	T and P
-------	----	----	---	----------	---------

ISA	50	.	✓	.	Theory
-----	----	---	----------	---	--------

</html>

OUTPUT

List of Course-wise Subjects

Sr. No.	Course	Subjects	Marks		Category		Practical/Theory
			Internal	External	Internal	External	
1	MBA	Management Accounting	30	70	.	✓	Theory
		Information technology	30	70	.	✓	T and P
		Basics of Marketing	30	70	.	✓	Theory
		E-Commerce	50	.	✓	.	Theory
2	MCM	Visual Basic	30	70	.	✓	T and P
		Internet technology	30	70	.	✓	T and P
		Network technology	30	70	.	✓	Theory
		VB Net	30	70	.	✓	T and P
		Linux	30	70	.	✓	T and P
		ISA	50	.	✓	.	Theory

Program No. 03: Create a HTML program to create table related tags with hyperlinks.

Table With Mobile Connections

			
	Table With Images		
			

SOURCE CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Lab3</title>
</head>
<style>
  table,tr,th,td{
    border: 2px solid black;
    border-collapse: collapse;

  }
  th,td{
    padding: 5px;
  }
  table{
    margin: 10px 50px 25px 200px;
  }
  caption{
    padding-bottom: 20px;
    font-size: 25px;
  }
  img{
    width: 300px;
    height: 300px;
  }
</style>
<body>
  <table>
    <caption><strong>Table with Mobile Connections</strong></caption>
    <tr>
      <th>
        <a
href="https://www.google.com/search?q=vodafone&rlz=1C1VDKB_enIN990IN990&source=lnms&tbn=isch
&sa=X&ved=2ahUKEwjLiPOsyvH9AhWb7zgGHRw5CdcQ_AUoA3oECAEQBQ#imgrc=3qR30sJRlKH-
hM">
          
        </a>
      </th>
    </tr>
  </table>
</body>
</html>
```


</th>
<th>
<a
href="https://www.google.com/search?q=Tata+Indicom&tbm=isch&ved=2ahUKEwjngN2vyvH9
AhUsCrcAHfRYAIYQ2-
cCegQIABAA&oq=Tata+Indicom&gs_lcp=CgNpbWcQAzIFCAAQgAQyBQgAEIAEMgUIABCABDIFCAA
QgAQyBQgAEIAEMgUIABCABDIFCAAQgAQyBQgAEIAEMgUIABCABDIFCAAQgAQ6BwgAELEDE
EM6CAgAEIAEELEDOgQIABBDOgsIABCABBCxAxCDAToECAAAQAzOICAAQsQMgWfQ17sCWJSdB
2CunwdoAHAAeASAAY8JiAGiMpIBDzAuMi45LjQuMS4wLjEuMZgBAKABAAoBC2d3cy13aXotaW1nsA
EAwAEB&sclient=img&ei=vwYcZKelHayU3LUP9LGBsAg&rlz=1C1VDKB_enIN990IN990#imgsrc=OETIA
3DWISw5vM">

</th>
<th>
<a
href="https://www.google.com/search?q=airtel&tbm=isch&ved=2ahUKEwij8bOZy_H9AhXSjOY
KHbyRDq8Q2-
cCegQIABAA&oq=airtel&gs_lcp=CgNpbWcQAzIHCAAQsQMgQzIHCAAQsQMgQzIECAAQzIECAAQ
QzIKCAAQsQMgWEQzIHCAAQsQMgQzIKCAAQDRCABBCxAzIECAAQzIKCAAQDRCABBCxAz
IECAAQzOFCAAQgAQ6CAgAEIAEELEDOggIABCxAxCDAVD8Bli2EWCE2gAcAB4AIABmQKIAdw
MkgEFMC4xLjaYACgAQGqAQtd3Mtd16LWltZ8ABAQ&sclient=img&ei=nQccZOOuBtKZmge8o7r4C
g&rlz=1C1VDKB_enIN990IN990#imgsrc=WsuLugaQWtKMMM">

</th>
</tr>
<tr>
<th>
<a
href="https://www.google.com/search?q=jio&rlz=1C1VDKB_enIN990IN990&source=lnms&tbm=isch&sa=X
&ved=2ahUKEwjW3bPYzPH9AhXy9DgGHU5jA2QQ_AUoA3oECAEQBQ&biw=1536&bih=714&dpr=1.25
#imgsrc=lfQG77ZPsGaUMM">

</th>
<th>
<a
href="https://www.google.com/search?q=Bsnl&rlz=1C1VDKB_enIN990IN990&source=lnms&tb
m=isch&sa=X&ved=2ahUKEwiI7fzpzPH9AhWC3zgGHc9CBgQQ_AUoAnoECAIQBA&biw=1536&bih=71
4&dpr=1.25#imgsrc=vjuLzaOv4uZ1vM">

</th>
<th>
<a
href="https://www.google.com/search?q=uninor&rlz=1C1VDKB_enIN990IN990&source=lnms&t
bm=isch&sa=X&ved=2ahUKEwihj9b-
zPH9AhXD7zgGHAV4AOIQ_AUoAnoECAEQBA&biw=1536&bih=714&dpr=1.25#imgsrc=QTSusHr5SzDfT
M">

</th> </tr> </table> </body> </html>

OUTPUT

Table with Mobile Connections

Program No. 04: Create a webpage with the following using HTML:

- 1. To embed an image in a webpage.**
- 2. To fix the hotspots.**
- 3. Show all relates information when hotspot is clicked.**

SOURCE CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Image-map Code</title>
</head>
<style>
  img{
    width: 700px;
    height: 690px;
  }
</style>
<body>
  <!-- Image Map Generated by http://www.image-map.net/ -->
  

  <map name="image-map">
    <area target="_blank" alt="Uttarakahnd" title="Uttarakahnd" href="https://uttarakhandtourism.gov.in/"
coords="353,260,268,187" shape="rect">
    <area target="_blank" alt="Jaipur" title="Jaipur"
href="https://www.google.com/search?q=water+fountain&rlz=1C1VDKB_enIN990IN990&source=l
nms&tbm=isch&sa=X&ved=2ahUKEwigOI_9nqH-
AhWWO3AKHfCaAqsQ_AUoAXoECAEQAw&biw=1536&bih=714&dpr=1.25"
coords="203,314,33" shape="circle">
    <area target="_blank" alt="Himanchal" title="Himanchal"
href="https://www.google.com/search?q=himachal+pradesh&rlz=1C1VDKB_enIN990IN990&sourc
e=lnms&tbm=isch&sa=X&ved=2ahUKEwjMupSYn6H-
AhWQHHAkHxpB2sQ_AUoA3oECAIQBQ&biw=1536&bih=714&dpr=1.25#imgrc=c3hyY
A6xRHtK0M"
coords="219,131,241,128,257,137,265,135,283,143,294,165,296,187,258,210,231,182,213,159"
shape="poly">
  </map>
</body>
</html>
```

OUTPUT



Program No. 05: Create webpage having frames as follows:

Your Name Punch line etc.		
<u>Objective</u>	Display information here of selected link	Display relevant images here
<u>Personal Information</u>		
<u>Family Information</u>		
<u>Educational Information</u>		
<u>Experience</u>		
<u>Achievements</u>		
<u>Other</u>		
Your contact details		

The frame which includes Objective, Personal Information ect. are the hyperlinks. Display the relevant information in the next frame on selecting the link. The colour scheme of hyper links should be as follows:

default – green

active – red

visited – blue

SOURCE CODE:

INDEX.HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<frameset rows= "12%,35%,12%">
  <frame src="frame1.html"></frame>
  <frameset cols="15%,30%,30%">
    <frame src="frame2_1.html"> </frame>
    <frame name="disp"></frame>
    <frame src="frame2_3.html"> </frame>
  </frameset>
  <frame src="frame3.html">

  </frame>
</frameset>
</html>
```

Frame1.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<style>
  h1,p{
    text-align: center;
    font-size: 20px;
  }
</style>
<body>
  <h1>Ambuj Bhandari</h1>
  <p><strong>Life is like Uttarakhand.... Beautiful but also filled with disasters</strong> </p>
</body>
</html>
```

Frame2_1.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<style>
  a{
    display: block;
    padding-bottom: 35px;
    font-size: larger ;
  }
  a:default{
    color: green;
  }
  a:active{
    color: red;
  }
  a:visited{
    color: blue;
  }
</style>
<body>
  <a href="Objective.html" target="disp">Objective</a>
  <a href="Objective.html" target="disp">Personal Informationa</a>
  <a href="Objective.html" target="disp">Family Information</a>
  <a href="Objective.html" target="disp">Educational Information</a>
  <a href="Objective.html" target="disp">Experience</a>
  <a href="Objective.html" target="disp">Achievements</a>
  <a href="Objective.html" target="disp">Other</a>
</body>
```

</html>

Frame2 2.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  
</body>
</html>
```

Frame3.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<style>
  p{
    text-align: center;
    font-size: 20px;
  }
</style>
<body>
  <p><strong>Mob: No: 7252986458</strong> </p>
  <p><strong>Email: ambujbhandari546@gmail.com</strong></p>
</body>
</html>
```


Objective.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <h1 style="text-align: center;">Display Information Here</h1>
</body>
</html>
```

OUTPUT

Ambuj Bhandari

Life is like Uttarakhand.... Beautiful but also filled with disasters

Objective Personal Informationa Family Information Educational Information Experience Achievements Other	Display Information Here	 Ambuja Cement
--	---------------------------------	---

Mob: No: 7252986458

Email: ambujbhandari546@gmail.com

Program No. 06: Demonstrate the use of <IFRAME> tag using suitable example:

SOURCE CODE:

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

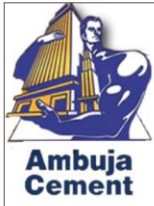
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>IFRAME</title>
</head>

<body>
  <p>Iframe 1</p>
  <iframe src="https://upload.wikimedia.org/wikipedia/en/4/47/Ambuja_logo.png" width="100%"
height="300" style="border:1px solid black;">
  </iframe>
  <p>IFrame 2</p>
  <iframe src="https://5.imimg.com/data5/SELLER/Default/2021/9/BE/OA/XG/23571748/roof-special-
ambuja-cement-1000x1000.PNG" width="100%" height="300" style="border:1px solid black;">
  </iframe>
</body>

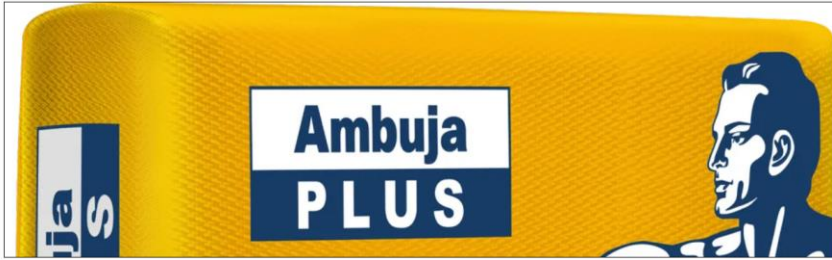
</html>
```

OUTPUT

Iframe 1



Iframe 2



Program No. 07: Create a program to run YouTube video in a web page:

SOURCE CODE:

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

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Lab 7</title>
</head>
<style>
iframe{
  width: 100%;
  height: 500px;
  margin: 0 auto;
  background-color: #777;
  display: block;
}
</style>
<body></body>
  <iframe width="560" height="315" src="https://www.youtube.com/embed/1Jcb1bfiG1k" title="YouTube
video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope;
picture-in-picture; web-share" allowfullscreen></iframe>
</body>

</html>
```

OUTPUT



Program No. 08: Write a HTML code for the following snapshot:

Basic information

Full name: _____

Birth date: _____

Gender: ☐ Male ☐ Female

Address: _____

Phone number: _____

Extra information

Interests: ☐ Books ☐ Movies ☐ Videogames

Favorite color:

Send data Reset form

SOURCE CODE:

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

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>

<body>
  <form>
    <fieldset>
      <fieldset>
        <legend>Basic Information</legend>
        <label>Full Name:</label>
        <input type="text" name="name">
        <br><br>
        <label>Birth date:</label>
        <input type="date" name="date">
        <br><br>
        <label>Gender:</label>
        <input type="radio" name="Gender">
        <label>Male</label>
        <input type="radio" name="Gender">
        <label>Female</label>
        <br><br>
      </fieldset>
    </fieldset>
  </form>
</body>
```

```
<label>Address:</label>
<input type="text" name="address">
<br><br>
<label>Phone Number:</label>
<input type="text" name="onenumber">
</fieldset>
<fieldset>
  <legend>Extra Information</legend>
  <label>Interests:</label>
  <input type="checkbox" name="books">
  <label>Books</label>
  <input type="checkbox" name="movies">
  <label>Movies</label>
  <input type="checkbox" name="videogames">
  <label>Videogames</label>
  <br><br>
  <label>Favorite color:</label>
  <input type="color" name="color">
  <br><br>
</fieldset>
<br><br>
<input type="submit" value="Send Data">
<input type="reset" value="Reset Form">
</fieldset>
</form>
</body>

</html>
```

OUTPUT

Basic Information

Full Name:

Birth Date

dd-mm-yyyy

Gender: Male

Female

Address

Phone Number:

Extra Information

Interests:

Books

Movies

Videogames

Favorite Color:

Send Data

Reset

Program No. 09: Create a web page of customer profile for data entry of customer's in a Hotel, The profile should include Name, Address, Age, gender, Room Type (A/C, Non-A/C or Deluxe), Type of payment (Cash, Credit/Debit Card or Coupons).

SOURCE CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Data Entry for a Hotel</title>
</head>
<style>
  input,label{
    margin:5px;
  }
  select{
    margin: 5px;
  }
</style>
<body>
  <h1>Customer Profile</h1>
  <form>
    <label for="name">Name: </label>
    <input type="text" name="name-box"><br/>
    <label for="address">Address: </label>
    <input type="textarea" name="add-text"><br/>
    <label for="age">Age: </label>
    <input type="text" name="age"><br/>
    <label for="gender">Gender: </label>
    <input type="radio" name="Gender" >
    <label for="male">Male</label>
    <input type="radio" name="Gender" >
    <label for="Female">Female</label><br/>
    <label for="Rtype">Room Type: </label>
    <select name="r-type" id="">
      <option value="select">----Select----</option>
      <option value="A/C">A/C</option>
      <option value="Non-A/C">Non-A/C</option>
      <option value="Deluxe">Deluxe</option>
    </select><br/>
    <label for="TOP">Type of Payment: </label>
    <select name="t-o-p" id="">
      <option value="select">----Select----</option>
      <option value="Cash">Cash</option>
      <option value="Credit Card">Credit Card</option>
      <option value="Debit Card">Debit Card</option>
      <option value="Coupons">Coupons</option>
    </select><br/>
    <input type="submit" value="Submit">
    <input type="reset" value="Reset">
  </form>
</body></html>
```


OUTPUT

Customer Profile

Name:

Address:

Age:

Gender: ☐ Male ☐ Female

Room Type: ▼

Type of Payment: ▼

CSS

Program No. 01: Create a web page to show all hyperlinks with following specification:

- 1. Default color is pink.**
- 2. Active color is blue.**
- 3. Visited color is Green.**
- 4. Hyperlink should be without underline.**

SOURCE CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Css 1</title>
</head>
<style>
  a:default{
    color: pink;
  }
  a:visited{
    color: green;
  }
  a:active{
    color: blue;
  }
  a{
    text-decoration: none;
    display: block;
    font-size: 50px;
  }
</style>
<body>
  <a href="/"> Click me !!</a>
  <a href="/">Click me bl !!</a>
  <a href="/"> Click me naaaaaa !!!</a>
</body>
</html>
```

OUTPUT

Click me !!

Click me bl !!

Click me naaaaaa !!!

Program No. 02: Create Box Shadow and text Shadow using CSS3.

SOURCE CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Css 2</title>
</head>
<style>
  a{
    text-decoration: none;
    display: block;
    font-size: 50px;
    text-shadow: 5px 5px 10px black;
  }
  div{
    display: block;
    box-sizing: border-box;
    box-shadow: 5px 5px 10px black;
  }
</style>
<body>
  <div>
    <a href="/"> Click me !!</a>
    <a href="/">Click me bl !!</a>
    <a href="/"> Click me naaaaaa !!!</a>
  </div>

</body>
</html>
```

OUTPUT

Click me !!

Click me bl !!

Click me naaaaaa !!!

Program No. 03: Create Rounded Corners using css3.

SOURCE CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Css 3</title>
</head>
<style>
  a{
    text-decoration: none;
    display: block;
    font-size: 50px;
  }
  div{
    display: block;
    margin:50px 50px;
    border: 10px solid black;
    border-radius: 50px;
  }
</style>
<body>
  <div>
    <a href="/"> Click me !!</a>
    <a href="/">Click me bl !!</a>
    <a href="/"> Click me naaaaaa !!!</a>
  </div>

</body>
</html>
```

OUTPUT

Click me !!

Click me bl !!

Click me naaaaaa !!!

Program No. 04: Create a web page to show newspaper layout effects on contents given in web page (i.e. in multiple columns)

SOURCE CODE:

```
<html>
<head>
  <title>Newspaper</title>
  <style>
    body{
      background-color: #D4D4D4;
    }
    div{
      column-count: 3;
      column-gap: 5px;
    }
    h1{
      text-align: center;
      margin-bottom: 20px;
    }
  </style>
</head>
<body>
  <h1>Newspaper Layout</h1>
  <div>
```

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Velit, aspernatur? Possimus, nisi. Architecto quaerat saepe quod fugiat est repudiandae, unde veniam dolore. Tempora voluptate ipsa animi vitae soluta, quis aperiam laboriosam, dolores sunt odit fugiat ipsam provident ratione unde id? Recusandae nesciunt, optio assumenda temporibus harum architecto minus voluptas dignissimos numquam, voluptates totam repudiandae quod molestias natus, maiores dolore nam commodi! Cum fugit provident dignissimos est consequatur eaque, tempora et tenetur dolores, eum reiciendis repellat? Similique quaerat cum cumque culpa officia rerum vero eligendi dignissimos deserunt quos, consequatur a assumenda? Beatae omnis veniam hic nostrum rerum vitae sapiente expedita, tempora amet voluptatibus voluptatum delectus incidunt error ducimus, repellendus sunt sint fugiat eius et ex quibusdam quisquam ratione. Dolor quidem illo nemo ipsum itaque iusto est, repudiandae asperiores obcaecati reprehenderit illum quae voluptas laboriosam sint excepturi voluptatum impedit quo odio, vero et fugit in error aperiam? Saepe modi impedit id? Vel sunt asperiores cupiditate provident nemo officia autem veniam ipsum veritatis totam deleniti temporibus hic in porro quas nesciunt, ipsam odio dolor! At ex minus porro labore! Sed molestias neque praesentium eligendi deleniti, optio aspernatur maiores quasi temporibus corrupti velit hic beatae, doloremque vero qui consectetur autem officiis, ex nisi alias rerum cupiditate labore id quaerat. Qui repellat quaerat totam molestias et quam officia nobis? Deleniti, perferendis. Molestiae quas repellendus optio, maiores iusto impedit sit eius debitis. Doloribus maxime quo odit nisi. Autem dolores, saepe nisi voluptas adipisci laborum nobis nihil delectus, deleniti rem cum doloremque ipsum voluptatibus culpa at odit quisquam aliquid dolorem quo harum! Sapiente distinctio nulla, error repellendus exercitationem ex neque veritatis atque deserunt quibusdam fuga fugiat earum nostrum quisquam iusto id eligendi, sit quidem voluptatem molestias dolores totam porro perspiciatis. Labore nobis autem dolorem maxime. Doloremque modi, est temporibus molestiae magnam tenetur fuga recusandae neque officia enim numquam ut veritatis incidunt error quisquam, aut facilis, rerum quibusdam et vero! Eum maxime ducimus suscipit ipsam. Optio ratione omnis corporis praesentium ab deleniti provident recusandae perferendis et nam, placeat minus quae magni labore ea quos unde sit molestias repellat. Iusto ullam facilis accusantium consequuntur necessitatibus sit dolorem distinctio sapiente debitis veniam, delectus odit nulla quaerat magni, tempore cumque maiores quae facere nobis. Facere corporis harum sequi esse praesentium quasi, possimus adipisci, unde rem omnis corrupti ducimus deleniti animi aliquam delectus accusamus. Illo, omnis porro. Reprehenderit esse nostrum itaque ipsam neque veniam a nulla tempore mollitia dolore et excepturi, dolores

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


Newspaper Layout

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Velit, aspernatur? Possimus, nisi. Architecto quaerat saepe quod fugiat est repudiandae, unde veniam dolore. Tempora voluptate ipsa animi vitae soluta, quis aperiam laboriosam, dolores sunt odit fugiat ipsam provident ratione unde id? Recusandae nesciunt, optio assumenda temporibus harum architecto minus voluptas dignissimos numquam, voluptates totam repudiandae quod molestias natus, maiores dolore nam commodi! Cum fugit provident dignissimos est consequatur eaque, tempora et tenetur dolores, eum reiciendis repellat? Similique quaerat cum cumque culpa officia rerum vero eligendi dignissimos deserunt quos, consequatur a assumenda? Beatae omnis veniam hic nostrum rerum vitae sapiente expedita, tempora amet voluptatibus voluptatum delectus incidunt error ducimus, repellendus sunt sint fugiat eius et ex quibusdam quisquam ratione. Dolor quidem illo nemo ipsum itaque iusto est, repudiandae asperiores obcaecati reprehenderit illum quae voluptas laboriosam sint excepturi voluptatum impedit quo odio, vero et fugit in error aperiam? Saepe modi impedit id? Vel sunt asperiores cupiditate provident nemo officia autem veniam ipsum veritatis totam deleniti temporibus hic in porro quas nesciunt,

ipsam odio dolor! At ex minus porro labore! Sed molestias neque praesentium eligendi deleniti, optio aspernatur maiores quasi temporibus corrupti velit hic beatae, doloremque vero qui consectetur autem officiis, ex nisi alias rerum cupiditate labore id quaerat. Qui repellat quaerat totam molestias et quam officia nobis? Deleniti, perferendis. Molestiae quas repellendus optio, maiores iusto impedit sit eius debitis. Doloribus maxime quo odit nisi. Autem dolores, saepe nisi voluptas adipisci laborum nobis nihil delectus, deleniti rem cum doloremque ipsum voluptatibus culpa at odit quisquam aliquid dolorem quo harum! Sapiente distinctio nulla, error repellendus exercitationem ex neque veritatis atque deserunt quibusdam fuga fugiat earum nostrum quisquam iusto id eligendi, sit quidem voluptatem molestias dolores totam porro perspiciatis. Labore nobis autem dolorem maxime. Doloremque modi, est temporibus molestiae magnam tenetur fuga recusandae neque officia enim numquam ut veritatis incidunt error quisquam, aut facilis, rerum quibusdam et vero! Eum maxime ducimus suscipit ipsam. Optio ratione omnis corporis praesentium ab deleniti provident recusandae perferendis et nam, placeat minus quae magni labore ea quos unde sit molestias repellat. Iusto ullam facilis accusantium

consequuntur necessitatibus sit dolorem distinctio sapiente debitis veniam, delectus odit nulla quaerat magni, tempore cumque maiores quae facere nobis. Facere corporis harum sequi esse praesentium quasi, possimus adipisci, unde rem omnis corrupti ducimus deleniti animi aliquam delectus accusamus. Illo, omnis porro. Reprehenderit esse nostrum itaque ipsam neque veniam a nulla tempore mollitia dolore et excepturi, dolores voluptate sunt deleniti quis! Molestiae impedit perferendis inventore, eaque animi aliquam voluptate. Veritatis dicta beatae ab minus enim facilis a modi blanditiis minima, maxime eos repellendus. Temporibus ex nobis enim quas ab fugit, voluptatem pariatur vel veniam. Repellat similique inventore omnis corrupti? Corrupti ducimus mollitia neque consectetur, id quaerat temporibus illum fuga, voluptates dicta provident itaque! Temporibus explicabo perspiciatis accusamus commodi, quis alias! Beatae vero quasi similique, enim expedita architecto rem fugiat, laudantium voluptatibus accusamus odio quisquam dolores voluptates officia adipisci eius reiciendis laboriosam excepturi nihil veritatis dicta perspiciatis! Accusamus facilis corrupti aliquid magni nesciunt modi tenetur nulla quod quaerat?s

Program No. 05: Create a web page to show transition effect in such a way so that elements gradually change from one style to another style.

SOURCE CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Transition Property</title>
</head>
<body>
  <style>
    div {
      width: 100px;
      height: 100px;
      background: red;
      transition: width 2s;
    }

    div:hover {
      width: 300px;
    }
  </style>
  <h1>The transition Property</h1>
  <div></div>

</body>

</html>
```

The transition Property



The transition Property



Program No. 06: Create a web page to show fixed background image (this image will not scroll with the rest of the page)

SOURCE CODE:

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

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>fixed background image</title>
</head>
<style>
  body {
    background-image: url('./404-error.jpg');
    background-attachment: fixed;
  }
  p{
    font-size: 50px;
  }
</style>

<body>
  <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Libero ab nisi labore ipsam corporis voluptas
optio,
  molestiae, nulla quis maiores beatae? Perspiciatis magni illo omnis dolore fugit corporis aliquid
exercitationem.
  Lorem ipsum dolor, sit amet consectetur adipisicing elit. Voluptas libero, dolorem veritatis voluptatem
molestiae
  reprehenderit harum ad itaque tempora odit quidem. Ab molestias asperiores corrupti a, reprehenderit quaerat
repellendus aut.
  Lorem ipsum dolor sit amet consectetur, adipisicing elit. Porro hic ducimus maiores modi, quidem quisquam
eligendi
  nesciunt quibusdam dolorum atque aperiam optio perferendis rem nisi in nemo temporibus consequuntur quis
non nostrum
  amet! Nam, quos modi? Incidunt mollitia voluptatibus praesentium reiciendis adipisci id esse inventore nihil,
nam
  hic qui doloribus animi voluptatem consequuntur asperiores similique! Qui voluptas neque quod sed ipsa
provident est
  obcaecati ut tempore unde fuga nemo, commodi ab excepturi tenetur repellendus explicabo quam
praesentium. Minima
  autem, sit aliquam unde beatae consectetur voluptatem sunt nihil repudiandae asperiores tenetur nesciunt

  </p>
</body>

</html>
```

OUTPUT

Lorem ipsum dolor sit amet consectetur adipisicing elit. Libero ab nisi labore ipsam corporis voluptas optio, molestiae, nulla quis maiores beatae? Perspiciatis magni illo omnis dolore fugit corporis aliquid exercitationem. Lorem ipsum dolor, sit amet consectetur adipisicing elit. Voluptas libero, dolorem veritatis voluptatem molestiae reprehenderit harum ad itaque tempora odit quidem. Ab molestias asperiores corrupti a, reprehenderit quaerat repellendus aut. Lorem ipsum dolor sit amet consectetur, adipisicing elit. Porro hic ducimus maiores modi, quidem quisquam eligendi nesciunt quibusdam dolorum atque aperiam optio perferendis rem nisi in nemo temporibus consequuntur quis non nostrum amet! Nam, quos modi? Incidunt mollitia voluptatibus praesentium reiciendis adipisci id tempora eam quidem. Ab molestias asperiores corrupti a, reprehenderit quaerat repellendus aut. Lorem ipsum dolor sit amet consectetur, adipisicing elit. Porro hic ducimus maiores modi, quidem quisquam eligendi nesciunt quibusdam dolorum atque aperiam optio perferendis rem nisi in nemo temporibus consequuntur quis non nostrum amet! Nam, quos modi? Incidunt mollitia voluptatibus praesentium reiciendis adipisci id esse inventore nihil, nam hic qui doloribus animi voluptatem consequuntur asperiores similique! Qui voluptas neque quod sed ipsa provident est obcaecati ut tempore unde fuga nemo, commodi ab excepturi tenetur repellendus explicabo quam praesentium. Minima autem, sit aliquam unde beatae consectetur voluptatem sunt nihil repudiandae asperiores tenetur nesciunt

Program No. 07: Create a web page to position a background image and repeat the image horizontally or vertically.

SOURCE CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Repeat Image Horizontally or vertically</title>
</head>
<style>
  body{
    background-image: url('./404-error.jpg');
    background-repeat: repeat-y;
    background-size: 200px 200px;
  }
</style>
<body>

</body>
</html>
```

OUTPUT



Program No. 08: Create a web page to resize the background of web page

SOURCE CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Resize Background of Webpage</title>
</head>
<style>
  body{
    background-image: url('./404-error.jpg');
    background-size: 150px 200px;
    width: 100%;
    height:650px;

  }
</style>
<body>
</body>
</html>
```


OUTPUT



Program No. 09: Design a web page using CSS which includes the following:

- 1. Use different font styles.**
- 2. Set background image for both the page and single elements on page.**
- 3. Control the repetition of image with background-repeat property.**
- 4. Define style for links as a: link, a: active, a: hover, a: visited.**
- 5. Add customized cursors for links.**
- 6. Work with layers.**

SOURCE CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Web page using CSS</title>
</head>
<style>
  body{
    background-image:
url("https://i.pinimg.com/originals/d3/02/e4/d302e4d06d9afae957b686985215270a.jpg");
    background-size: 500px 500px;
    background-repeat: repeat-y;
  }
  .heading{
    font-style:oblique;
    text-align: center;
  }
  img{
    width: 300px;
    position: absolute;
    z-index: -1;
  }
  .para{
    position: absolute;
    z-index: 1;
    background-image: url("https://gumlet.assettype.com/creativegaga%2F2022-05%2F27ac6a88-4da9-47dc-af50-71dd432c5a31%2FNaveen_Selvanathan_2.jpg");
    font-family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lucida Sans', Arial, sans-serif;
  }
  a{
    position: absolute;
    margin: 100px 700px;
    font-size: 20px;
    font-family:'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif
  }
  a:active{
    color: aqua;
    cursor:grab;
  }
  a:link,a:visited{
    color: aquamarine;
    cursor:crosshair;
  }
}
```

```
a:default{
  color: bisque;
  cursor: col-resize;
}
a:hover{
  color: blueviolet;
  cursor: copy;
}
.layer1{
  font-size: 40px;
  font-family: Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;
  text-decoration: underline;
  position: absolute;
  top: 250px;
  left: 740px;
  z-index: -1;
}
.layer2{
  font-size: 70px;
  font-family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva,
Verdana, sans-serif;
  position: absolute;
  top: 220px;
  left: 700px;
  z-index: 1;
}

</style>
<body>
  <h1 class="heading">Web page using CSS</h1>
  <p class="para">Lorem ipsum dolor sit amet consectetur adipisicing elit. Quisquam repudiandae quae a
quam praesentium itaque deserunt iste ipsa doloremque ducimus rerum dolore velit impedit accusamus dolor
culpa, nobis, nemo repellat!</p>
  <a href="/">Register</a>

  <h1 class="layer1">LAyer 1</h1>
  <h2 class="layer2">LAyer 2</h2>
</body>
</html>
```

OUTPUT

Web page using CSS

Lorem ipsum dolor sit amet consectetur adipisicing elit. Quisquam repudiandae quae a quam praesentium itaque deserunt iste ipsa doloremque ducimus rerum dolore velit impedit accusamus dolor culpa, nobis, nemo repellat!



[Register](#)

Layer 1
LAYER 2

JavaScript

Program No. 01: Design a web page to validate credit card number according to the below specification. Following tables outlines the major credit cards you might want to validate, along with their allowed prefixes and lengths.

Major Credit Cards, Their Prefixes, and Length

Card Type	Prefixes	Length
Master Card	51-55	16
Visa	4	13,16
American Express	34,37	15

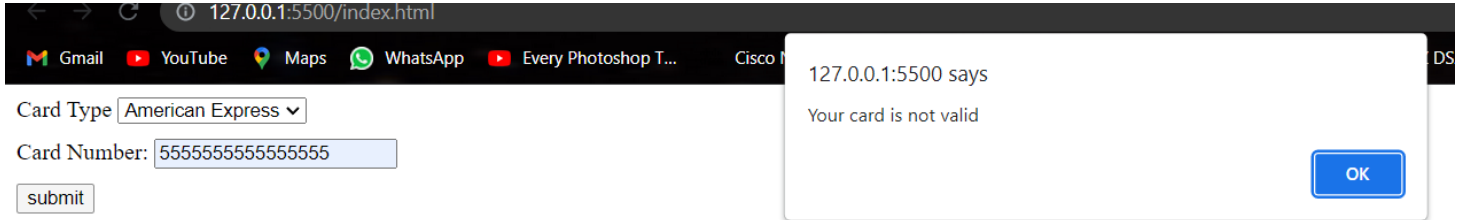
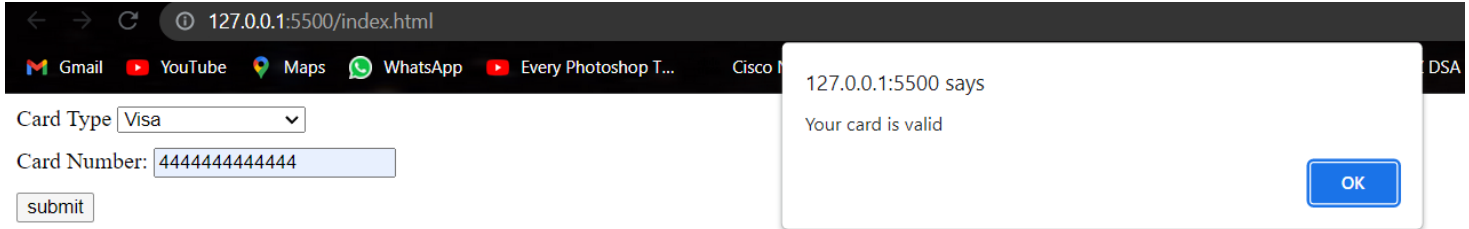
SOURCE CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<style>
  label,input,select{
    margin-bottom: 10px;;
  }
</style>
<body>
  <form action="#" >
    <label for="type"> Card Type</label>
    <select name="card-type" id="ctype" required>
      <option value="Master">Master Card</option>
      <option value="Visa">Visa</option>
      <option value="AExp">American Express</option>
    </select><br/>
    <label for="card-no">Card Number:</label>
    <input type="text" name="card-no" id="cno" pattern="[0-9]*" required><br/>
    <input type="submit" value="submit" onclick="validate()">
  </form>
</body>
<script>
  function validate()
  {
    var card_type = document.getElementById("ctype").value;
    var card_no = document.getElementById("cno").value;
    var val=false;
    if (card_type === "Master") {
      var pref=parseInt(card_no.substring(0,2));
      if(pref>=51 && pref<=56 && card_no.length ==16)
```

```
        val= true;
    else
        val= false;
    }
    else if (card_type === "Visa") {
        var pref=parseInt(card_no.substring(0,1));
        if(pref==4 && (card_no.length ==13 || card_no.length ==16))
            val= true;
        else
            val= false;
    }
    else if(card_type === "AExp")
    {
        var pref=parseInt(card_no.substring(0,2));
        if(pref==34 && pref==37 && card_no.length ==15)
            val= true;
        else
            val= false;
    }
    else
        val= false;

    if(val)
    {
        alert("Your card is valid");
    }
    else
    {
        alert("Your card is not valid");
    }
}
</script>
</html>
```

OUTPUT



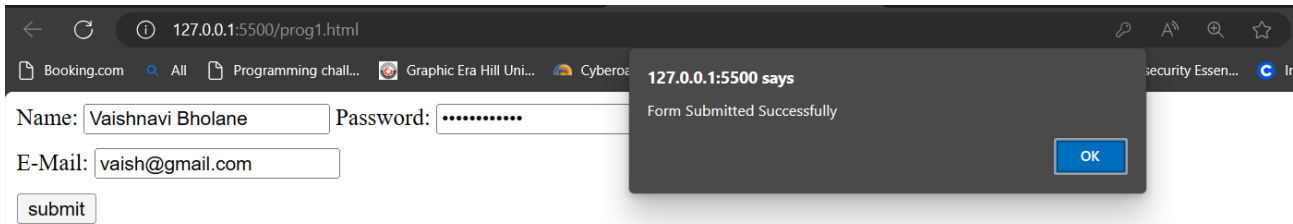
Program No. 02: Write a java script to validate the following fields in a registration page:

- **Name** (should contains alphabets and the length should not be less than 6 characters)
- **Password** (should not be less than 6 characters)
- **E-mail** (should not contain invalid addresses)

SOURCE CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<style>
  label,input,select{
    margin-bottom: 10px;;
  }
</style>
<body>
  <form method="post" onsubmit="show()">
    <label for="name"> Name: </label>
    <input type="text" name="fname" id="name" pattern="^[A-Za-z]{6,}">
    <label for="pass">Password:</label>
    <input type="password" name="password" id="pass" pattern=".{6,}" required><br/>
    <label for="email">E-Mail:</label>
    <input type="email" name="E-mail" id="e-mail" required pattern="[A-Za-z0-9]*[@][A-Za-z]*[.][A-Za-z]*"><br/>
    <input type="submit" value="submit" >
  </form>
</body>
<script>
  function show()
  {
    alert("Form Submitted Successfully");
  }
</script>
</html>
```


OUTPUT



The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5500/prog1.html". The browser's tab bar shows several open tabs, including "Booking.com", "All", "Programming chall...", "Graphic Era Hill Uni...", "Cybero...", "security Essen...", and "In". The main content area of the browser displays a form with the following fields:

- Name:** Vaishnavi Bholane
- Password:** [masked with dots]
- E-Mail:** vaish@gmail.com
- submit** button

A dark gray modal dialog box is overlaid on the form, displaying the message:

127.0.0.1:5500 says
Form Submitted Successfully

The dialog box has a blue "OK" button in the bottom right corner.

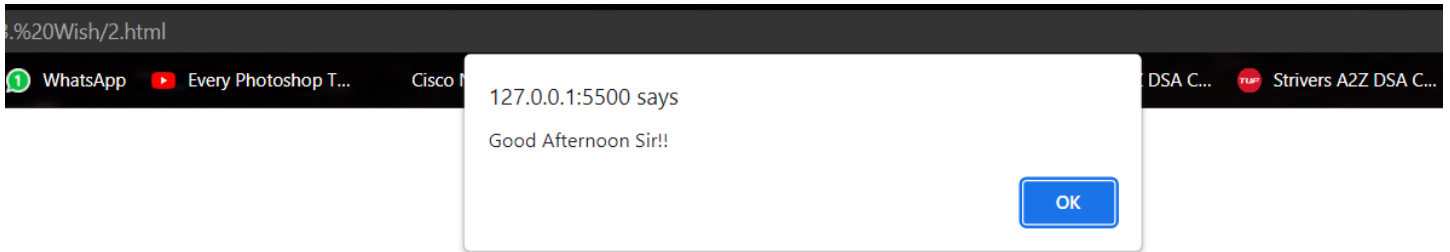
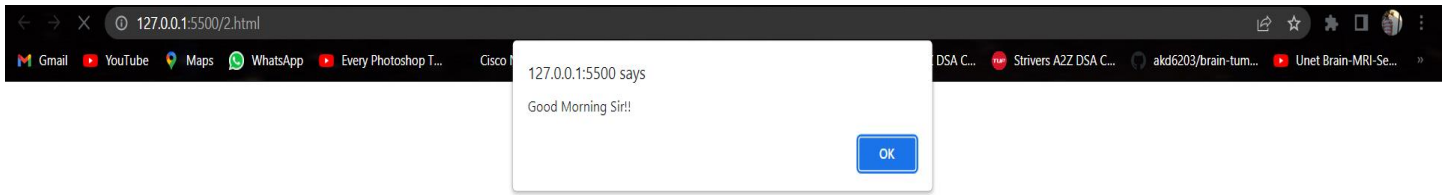
Program No. 03: Write a java script program to "Wish a user " at different hours of a day.

SOURCE CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Wish User</title>
</head>
<body>

</body>
<script>
  var date=new Date();
  var hour=date.getHours();
  if(hour>=0 && hour<12)
    alert("Good Morning Sir!!");
  else if(hour>=12 && hour <=16)
    alert("Good Afternoon Sir!!");
  else if(hour>16 && hour<=19)
    alert("Good Evening Sir!!");
  else if(hour>19 && hour<=23)
    alert("Good Night Sir!!");
  console.log(hour);
</script>
</html>
```

OUTPUT



Program No. 04: Design a web page that self-modifying itself after every one minute.

SOURCE CODE:

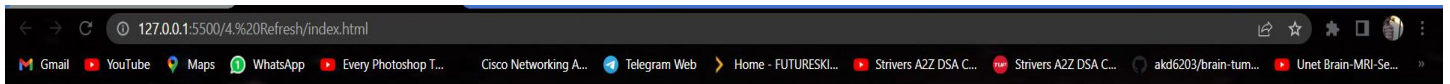
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Refresh</title>
</head>
<style>
  p{
    text-align: center;
    font-size: x-large;
  }
</style>
<body>
  <p id="para">Hello World!!</p>
</body>
<script>
  function Refresh(){
    var arr=["My","name","is"];
    var p=document.getElementById("para");
    var r=Math.floor(Math.random()*arr.length);
    p.innerHTML=arr[r];
  }
  setInterval('Refresh()',60000);
</script>
</html>
```

OUTPUT



Hello World!!

AFTER ONE MINUTE:



is

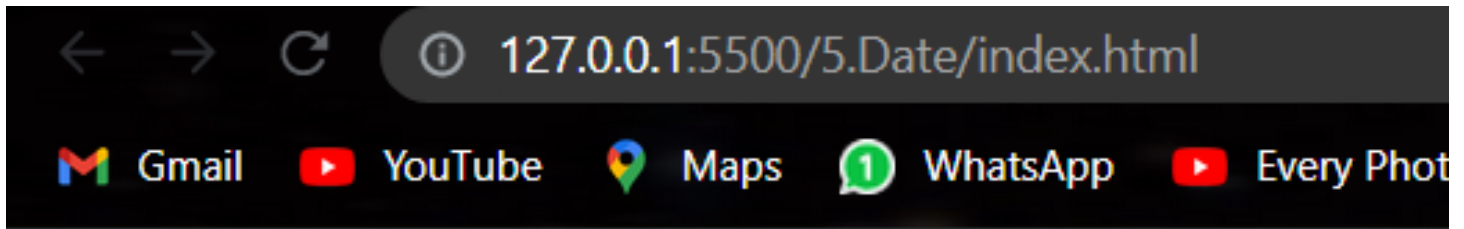
Program No. 05: Write a code for web application, which accepts the birth date from the user in a textbox and display the day of the week in a message box on the click of a button.

SOURCE CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Show Day of the week</title>
</head>
<style>
  input{
    margin: 5px;
  }
  #btn{
    display: block;
  }
</style>
<body>
  <label for="Birthdate">Birth Date:</label>
  <input type="text" id="bday" placeholder="YYYY-MM-DD">
  <input type="submit" onclick="show()" id="btn">
  <label for="Day of the week">Day of the week: </label>
  <input type="text" name="" id="dow">

</body>
<script>
  function show() {
    var dob=document.getElementById("bday").value;
    var msg=document.getElementById("dow");
    const d = new Date(dob);
    var arr=["Sunday","Monday","Tuesday","Wednesday","Thursday","Friday","Saturday"];
    msg.value=arr[d.getDay()];
  }
</script>
</html>
```

OUTPUT



Birth Date:

Day of the week:

Program No. 06: Write a script that inputs a telephone number as a string in the form (555)555-555. The script should use strings method split to extract the area code as token and the last four digits of the phone numbers as a token. Display the area code in one text field and the seven-digit phone number in another text field.

SOURCE CODE:

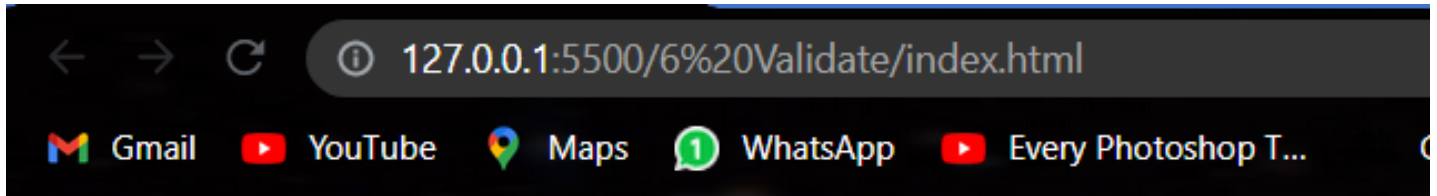
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Validate Area Code and Phone Number</title>
</head>
<style>
  input{
    margin: 5px;
  }
</style>
<body>
  <label>Enter Phone number [in the form(555)555-5555]:</label>
  <input type="text" name="phone" id="phone" value="(xxx) xxx-xxxx" size="14" maxlength="14"
onchange="validate()" /><br/>
  <label>Area Code: </label>
  <input type="text" name="area" id="area" size="8"/><br/>
  <label>Number: </label>
  <input type="text" name="telephone" id="telephone" size="8"/>
</body>
<script>
function validate() {
  var number=document.getElementById("phone").value;
  if (number.charAt(0) != "(" || number.charAt(4) != ") " || number.charAt(5) != " " || number.charAt(9) != "-") {
    alert("Invalid Format....Please Enter again!");
    return;
  }
  for (var i = 1; i < 14; i++) {
    if (i==0 || i==4 || i==5 || i==9)
      continue;

    else if(isNaN(number.charAt(i))) {
      alert("Invalid Format....Please Check again!");
      return;
    }
  }
  var areac=number.split(" ");
  document.getElementById("area").value=areac[0];
  var tel=areac[1].split("-");
  document.getElementById("telephone").value=tel.join("-");
}
```



```
}  
</script>  
</html>
```

OUTPUT



Enter Phone number [in the form(555)555-5555]:

Area Code:

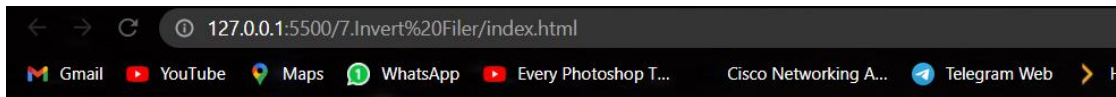
Number:

Program No. 08: Create a web page that applies the invert filter to an image if the user moves the mouse over it.

SOURCE CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Invert Filter</title>
</head>
<body>
  <h1>Hover on the Image to invert it.</h1>
  
</body>
<script>
  function invert(){
    var img = document.getElementById("image");
    img.style.filter="invert(100%)";
  }
  function revert(){
    var img = document.getElementById("image");
    img.style.filter="invert(0%)";
  }
</script>
</html>
```

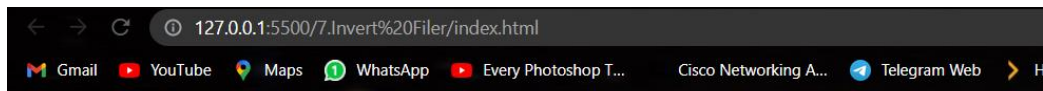
OUTPUT



Hover on the Image to invert it.



AFTER HOVER:



Hover on the Image to invert it.



XML

Program No. 01: Write an XML file which will display the Book information which includes the following:

- **Title of the book**
- **Author Name**
- **ISBN number**
- **Publisher name**
- **Edition**
- **Price**

Write a Document Type Definition (DTD) to validate the above XML file.

SOURCE CODE:

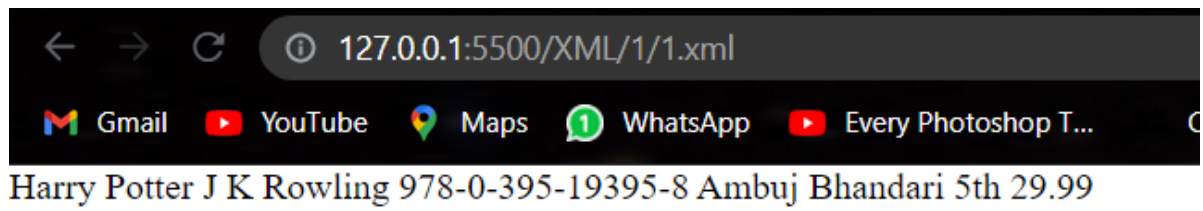
XML FILE:

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet href="style.css" type="text/css"?>
<?xml-model href="validate.dtd" type="application/xml-dtd"?>
<Book-info>
  <title>Harry Potter</title>
  <author>J K Rowling</author>
  <isbn>978-0-395-19395-8</isbn>
  <publisher-name>Tom Smith </publisher-name>
  <edition>5th</edition>
  <price>29.99</price>
</Book-info>
```

DTD FILE:

```
<?xml version="1.0" encoding="UTF-8"?>
<!ELEMENT Book-info (title,author,isbn,publisher-name,edition,price)>
  <!ELEMENT title (#PCDATA)>
  <!ELEMENT author (#PCDATA)>
  <!ELEMENT isbn (#PCDATA)>
  <!ELEMENT publisher-name (#PCDATA)>
  <!ELEMENT edition (#PCDATA)>
  <!ELEMENT price (#PCDATA)>
```

OUTPUT



Program No. 02: Display the above XML File as follows:

The contents should be displayed in a block. And the Author names information should be displayed in one color and should be capitalized and in bold. Use your own colors for remaining information. Use CSS for the above purpose.

SOURCE CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>XML PARSING</title>
</head>
<style>
  table,th,td,tr{
    border-collapse: collapse;
    border: 1px solid black;
  }
  table td:nth-child(2){
    color: red;
    text-transform: capitalize;
    font-weight: bold;
  }
  td,th{
    padding: 10px;
    text-align: center;
  }
</style>
<body>
  <table id="book-info">
    <tr>
      <th>
        Title
      </th>

      <th id="author">
        Author Name
      </th>
      <th>
        ISBN Number
      </th>
      <th>
        Publisher Name
      </th>
      <th>
        Edition
      </th>
      <th>
        Price
      </th>
    </tr>

  </table>
```

```
</body>
<script>
    var pars=new DOMParser();
    var xml="<Book-info>"+
        "<title>Harry Potter</title>"+
        "<author>J K Rowling</author>"+
        "<isbn>978-0-395-19395-8</isbn>"+
        "<publisher-name>Tom Smith </publisher-name>"+
        "<edition>5th</edition>"+
        "<price>29.99</price>"+
    "</Book-info>";
    var tab=document.getElementById("book-info");
    var xmlDoc=pars.parseFromString(xml,"text/xml");
    var row=tab.insertRow(1);
    var cell1=row.insertCell(0);
    var cell2=row.insertCell(1);
    var cell3=row.insertCell(2);
    var cell4=row.insertCell(3);
    var cell5=row.insertCell(4);
    var cell6=row.insertCell(5);

    cell1.innerHTML=xmlDoc.getElementsByTagName("title")[0].childNodes[0].nodeValue;;
    cell2.innerHTML=xmlDoc.getElementsByTagName("author")[0].childNodes[0].nodeValue;
    cell3.innerHTML=xmlDoc.getElementsByTagName("isbn")[0].childNodes[0].nodeValue;
    cell4.innerHTML=xmlDoc.getElementsByTagName("publisher-name")[0].childNodes[0].nodeValue;
    cell5.innerHTML=xmlDoc.getElementsByTagName("edition")[0].childNodes[0].nodeValue;
    cell6.innerHTML=xmlDoc.getElementsByTagName("price")[0].childNodes[0].nodeValue;
</script>
</html>
```

OUTPUT

Title	Author Name	ISBN Number	Publisher Name	Edition	Price
Harry Potter	J K Rowling	978-0-395-19395-8	Tom Smith	5th	29.99

PHP

Program No. 01: Create a Login form having User-Id and Password fields. After submitting the form, match the user-id and password with existing user-id and password. If the user-id and password match a new welcome window should appear.

SOURCE CODE:

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Login Validate</title>
</head>
<style>
  label,input,select{
    margin-bottom: 10px;;
  }
</style>
<body>
  <form action="validate.php" method="post">
    <label for="name"> UserName: </label>
    <input type="text" name="uname" id="name" required>
    <label for="pass">Password:</label>
    <input type="password" name="password" id="pass" required><br/>
    <input type="submit" value="submit" >
  </form>
</body>
</html>
```

Validate.php

```
<?php
  $u_name=$_POST['uname'];
  $pass=$_POST['password'];

  $conn=new mysqli("localhost","root","","test");
  if($conn->connect_error)
  {
    die("Connection failed. ".$conn->connect_error);
  }
  $sql="select * from form_val where Username='$u_name' and Password='$pass' ";
  $result=$conn->query($sql);
  if($result->num_rows>0)
    echo"Record Matched..... Welcome!";
  else
    echo "No record Found!!!";

  $conn->close();

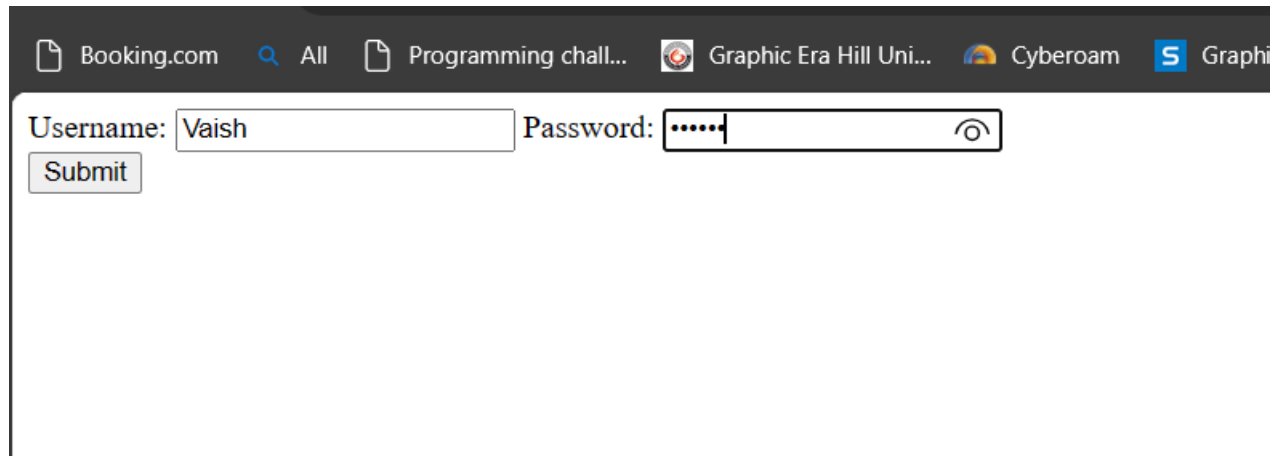
?>
```


OUTPUT

DATABASE VALUES:

Sno	Name	Password
0	Vaishnavi	vaishnavi1
1	Vaish	vaish1

Setting The Values:



Username: Password: 

Values Matched:



Record Matched..... Welcome!

Program No. 02: Create a PHP page to display all the records from PERS table that contain Department Number (field name dno) similar to that of given in list lstdnogiven in interface web browser Screen.

SOURCE CODE:

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Display PERS</title>
</head>
<style>
  label,input,select{
    margin-bottom: 10px;;
  }
</style>
<body>
  <form action="show.php" method="post">
    <label for="DeptNo">Department Number: </label>
    <input type="text" name="Department" placeholder="Enter Dno">
    <input type="submit" value="Submit">
  </form>
</body>
</html>
```

show.php

```
<?php
  $dno=$_POST['Department'];

  $conn=new mysqli("localhost","root","","test");
  if($conn->connect_error)
  {
    die("Connection failed. ".$conn->connect_error);
  }
  $sql="select * from PERS where Dno= '$dno' ";
  $result=$conn->query($sql);
  if($result->num_rows>0)
  {

    while($row=$result->fetch_assoc())
    {
      echo "Employee ID : ".$row['Emp_ID']."&emsp;". "&emsp;". "Employee Name: ".$row['Name']."&emsp;". "&emsp;". "Salary: ".$row['Salary']."&emsp; ". "&emsp;". "Department Number: ".$row['Dno']."<br>". "<br>";
    }
  }
  else
    echo "No record Found!!!";

  $conn->close();
?>
```

OUTPUT

DATABASE VALUES:

EmplID	Name	Salary	Dno
1	Percy Jackson	20000	1
2	Tom Scully	30000	1
3	Kent Brown	40000	1

Setting The Values:

Department No:

Values Matched:

Emp ID: 1 Employee Name Percy Jackson Salary 20000 Dept No: 1

Emp ID: 2 Employee Name Tom Scully Salary 30000 Dept No: 1

Emp ID: 3 Employee Name Kent Brown Salary 40000 Dept No: 1

Program No. 03: Write a PHP program to store page views count in SESSION, to increment the count on each refresh, and to show the count on web page.

SOURCE CODE:

```
<?php
    session_start();
    if(isset($_SESSION['views']))
    {
        $_SESSION['views'] = $_SESSION['views'] + 1;
    }
    else{
        $_SESSION['views'] = 1;
    }

    echo "View Count: " . $_SESSION['views'];
?>
```

OUTPUT

First Time Visit:

View Count: 1

After Refreshing 5 times:

View Count: 6

Program No. 04: Write a PHP program to store current date-time in a COOKIE and display the "Last visited on date-time" on the web page upon reopening of the same page.

SOURCE CODE:

```
<h2>Your Last time Visit was:</h2>
<?php
    date_default_timezone_set("Asia/Kolkata");
    setcookie('LastVisit',date("d/m/Y"." ". "h-i-sa"." ". "l"));
    if(isset($_COOKIE['LastVisit']))
    {
        $visit=$_COOKIE['LastVisit'];
        echo $visit;
    }
    else
    {
        echo "It's Your First Time Visit...hihi!!";
    }
?>
```

OUTPUT

First Time Visit:

Your Last time Visit was:

It's Your First Time Visit...hihi!!

For all other Visits:

Your Last time Visit was:

25/05/2023 08-31-15pm Thursday

Program No. 05: 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.

SOURCE CODE:

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Book Info</title>
</head>
<style>
  table{
    margin: 70px 550px;
  }
  table,tr,td{
    border: 5px solid black;
    border-collapse: collapse;
    padding: 5px;
    text-align: center;
  }
  label,input,select{
    margin-bottom: 10px;;
  }
  h2,h3{
    text-align: center;
  }
</style>
<body>
  <h2>Book Information and Management System</h2>
  <h3>Enter the Records of a Book</h3>
  <form action="insert.php" method="post">
    <table >
      <tr>
        <td>Enter the Accession Number of the Book: </td>
        <td><input type="text" name="Aname" required></td>
      </tr>
      <tr>
        <td>Enter the title of the Book: </td>
        <td><input type="text" name="title" required></td>
      </tr>
      <tr>
        <td>Enter the Author of the Book: </td>
        <td><input type="text" name="auth" required></td>
      </tr>
      <tr>
        <td>Enter the Edition of the Book: </td>
        <td><input type="text" name="ed" required></td>
      </tr>
      <tr>
        <td>Enter the Publisher of the Book: </td>
```

```

        <td><input type="text" name="pub" required></td>
    </tr>
    <tr>
        <td></td>
        <td>
            <input type="submit" value="Submit">
            <input type="reset" value="Reset">
        </td>
    </tr>
</table>
</form>
</body>
</html>

```

Insert.php

```

<?php
    $ano=$_POST['Aname'];
    $tit=$_POST['title'];
    $author=$_POST['auth'];
    $ed=$_POST['ed'];
    $pub=$_POST['pub'];

    $conn=new mysqli("localhost","root","","test");
    if($conn->connect_error)
    {
        die("Connection Establishment Failed!!".$conn->connect_error);
    }
    $quer="Insert into BookDB values('$ano','$tit','$author','$ed','$pub')";
    $result=$conn->query($quer);

    if($result==TRUE)
    {
        echo "Records Entered Successfully!!!."<br/>";
        echo "<a href='search.html'>Search a Book Here</a> OR ";
        echo "<a href='index.html'>Enter a new Record</a>";
    }
    else
    {
        echo "Error Inserting Records!!!."<br/>";
        echo "<a href='index.html'>Back to Homepage</a>";
    }
    $conn->close();
?>

```

Search.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Book Info</title>
</head>
<style>
  table{
    margin: 70px 550px;
  }
  table,tr,td{
    border: 5px solid black;
    border-collapse: collapse;
    padding: 5px;
  }
  label{
    margin-left: 500px;
  }
  h2,h3{
    text-align: center;
  }
</style>
<body>
  <h2>Book Information and Management System</h2>
  <h3>Search a Book</h3>
  <form action="show.php" method="post">
    <label>Enter the title of the Book you want to search: </label>
    <input type="text" name="title" >
    <input type="submit" value="Search" >
  </form>
</body>
</html>
```

show.php

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

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Book Info</title>
</head>
<style>
  table{
    margin-left: 50px;
    margin-bottom: 20px;
  }
  th{
    width: 10%;
  }
```

```

table,tr,td,th{
    border: 5px solid black;
    border-collapse: collapse;
    padding: 5px;
    text-align: center;
}
h2,h3{
    text-align: center;
}
</style>
<body>
<h2>Book Information and Management System</h2>
<h3>The Book you Requested for</h3>
<?php
    $tit = $_POST['title'];

    $conn = new mysqli("localhost", "root", "", "test");
    if ($conn->connect_error) {
        die("Connection Establishment Failed!!" . $conn->connect_error);
    }
    if($tit=='All' || $tit=='all')
    {
        $quer = "select * from BookDB;";
        $result = $conn->query($quer);

        if ($result->num_rows > 0) {?>
            <table>
                <tr>
                    <th>Accession Number</th>
                    <th>Title</th>
                    <th>Author</th>
                    <th>Edition</th>
                    <th>Publisher</th>
                </tr>
                <?php
                while($row=$result->fetch_assoc())
                {?>
                    <tr>
                        <td><?php echo $row['ANo']; ?></td>
                        <td><?php echo $row['Title']; ?></td>
                        <td><?php echo $row['Author']; ?></td>
                        <td><?php echo $row['Edition']; ?></td>
                        <td><?php echo $row['Publisher']; ?></td>
                    </tr>

                    <?php } ?>
                </table>
                <?php
            }
        }
    else
    {
        $quer = "select * from BookDB where Title='$tit' ";
        $result = $conn->query($quer);

        if ($result->num_rows > 0) {
            while($row=$result->fetch_assoc())

```

```

{?>
<table>
  <tr>
    <th>Accession Number</th>
    <th>Title</th>
    <th>Author</th>
    <th>Edition</th>
    <th>Publisher</th>
  </tr>
  <tr>
    <td><?php echo $row['ANo']; ?></td>
    <td><?php echo $row['Title']; ?></td>
    <td><?php echo $row['Author']; ?></td>
    <td><?php echo $row['Edition']; ?></td>
    <td><?php echo $row['Publisher']; ?></td>
  </tr>
</table>
<?php
}
}
else {
  echo "Is Not Present!!! No Records Found for the Requested Title " . "<br/>";
  echo "<a href='search.html'>Back to Search Page</a>";
}
}
$conn->close();
echo '<pre>';
echo "\t<a href='search.html'>Search a Book Here</a>\n \tOR\n\t<a href='index.html'>Enter a new
Record</a>\n";
echo '</pre>';
?>
</body>
</html>

```

OUTPUT

Book Information and Management System

Enter the Records of a Book

Enter the Accession Number of the Book:	<input type="text" value="7859"/>
Enter the title of the Book:	<input type="text" value="Hunstman"/>
Enter the Author of the Book:	<input type="text" value="Ambuj"/>
Enter the Edition of the Book:	<input type="text" value="2nd"/>
Enter the Publisher of the Book:	<input type="text" value="Ambuja Singh"/>
	<input type="button" value="Submit"/> <input type="button" value="Reset"/>

Records Entered Successfully!!!

[Search a Book Here](#) OR [Enter a new Record](#)

Book Information and Management System

Search a Book

Enter the title of the Book you want to search:

Book Information and Management System

The Book you Requested for

Accession Number	Title	Author	Edition	Publisher
7859	Hunstman	Ambuj	2nd	Ambuja Singh

[Search a Book Here](#)
OR
[Enter a new Record](#)

Database Entries:

ANo	Title	Author	Edition	Publisher
14587	Hari Putter aur uske 4 bhai	Ambuj	1	Ambuja Cement
45325	Harry Potter and Me	Musak Bhandari	5	Ambuja Roof Special
7896	It Ends With Us	Colleen Hoover	1st	Hoover Productions
32586	It Starts with Us	Colleen Hoover	2	Hoover Productions
7859	Hunstman	Ambuj	2nd	Ambuja Singh