



**Graphic Era**  
**HILL UNIVERSITY**  
Established by an Act of the State Legislature of Uttarakhand (Adhiniyam Sankhya 12 of 2011)

# Term Work on

## Full Stack Development Lab

(PCS-506)

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# 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>

<head>
  <title>List Of Subjects</title>
  <style>
    table,th,td{
      border:1px solid black;
    }
  </style>
</head>

<body>

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

<tr>
<th rowspan="2">Serial No</th>
<th rowspan="2">Course</th>
<th rowspan="2">Subject</th>
<th colspan="2">Marks</th>
<th colspan="2">Catgoey</th>
```

<th rowspan="2">Practical/Theory</th>  
</tr>

<tr>  
<th>Internal</th>  
<th>External</th>  
<th>Internal</th>  
<th>External</th>  
</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>  
<td>50</td>  
<td>-</td>  
<td>✓</td>  
<td>-</td>  
<td>Theory</td>  
</tr>

<tr>  
<td rowspan="6">2</td>  
<td rowspan="6">MCM</td>  
<td>Visual Basic</td>  
<td>30</td>  
<td>70</td>  
<td>-</td>

<td>✓</td>  
<td>T and P</td>  
</tr>

<tr>  
<td>Internet Technology</td>  
<td>30</td>  
<td>70</td>  
<td>-</td>  
<td>✓</td>  
<td>T and P</td>  
</tr>

<tr>  
<td>Network Technology</td>  
<td>30</td>  
<td>70</td>  
<td>-</td>  
<td>✓</td>  
<td>T and P</td>  
</tr>

<tr>  
<td>VB.Net</td>  
<td>30</td>  
<td>70</td>  
<td>-</td>  
<td>✓</td>  
<td>T and P</td>  
</tr>

<tr>  
<td>Linux</td>  
<td>30</td>  
<td>70</td>  
<td>-</td>  
<td>✓</td>  
<td>T and P</td>  
</tr>

<tr>  
<td>ISA</td>  
<td>50</td>  
<td>-</td>  
<td>✓</td>  
<td>-</td>  
<td>Theory</td>  
</tr>

</table>  
</body>

</html>

## OUTPUT

### List of Course-wise Subjects

Serial No	Course	Subject	Marks		Catgoey	Practical/Theory	External
			Internal	External	Internal		
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	-	✓	T and P
		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:


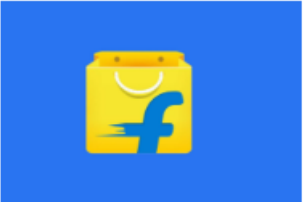










```
<!DOCTYPE html>
<html>
<head>
    <title>Images</title>
    <style>
        table,td{
            border: 1px solid black;
            border-collapse: collapse;
        }
        .image{
            width: 150px;
        }
    </style>
</head>
<body>
    <table>
        <caption><strong>Tabel With Shopping apps</caption>
        <tr>
            <td><a href="https://www.amazon.in/"></a></td>
            <td><a href="https://www.flipkart.com/"></a></td>
            <td><a href="https://www.myntra.com/"></a></td>
            <td><a href="https://www.snapdeal.com/"></a></td>
        </tr>
        <tr>
            <td><a href="https://www.ajio.com/"></a></td>
            <td><a href="https://www.nykaa.com/"></a></td>
            <td><a href="https://www.jiomart.com/"><img class="image"
```



```
src="https://upload.wikimedia.org/wikipedia/en/5/54/JioMart_logo.svg"></a></td>
<td><a href="https://www.purp1le.com/"></a></td>
</tr>
<tr>
<td><a href="https://www.youtube.com/"></a></td>
<td><a href="https://www.nike.com/in/"></a></td>
<td><a href="https://www.vodafone.com/"></a></td>
<td><a href="https://www.airtel.in/"></a></td>
</tr>
</table>
</body>
</html>
```

## OUTPUT

**Tabel With Shopping apps**

**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>

<!-- Image Map Generated by http://www.image-map.net/ -->


<map name="image-map">
  <area target="" alt="Culture of Capital" title="Culture of Capital"
href="https://dmsoutheast.delhi.gov.in/culture-
heritage/#:~:text=Fairs%20And%20Festivals%3A,to%20Delhi%20and%20so%20on." coords="294,336,29"
shape="circle">
</map>
</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>
<head>
  <title>Frame-Set</title>
</head>

<frameset rows="20% , 55% , *">
  <frame name="top" src="top.html">
  <frameset cols="33% , 33% , *">
    <frame name="c1" src="c1.html">
    <frame name="c2" src="c2.html">
    <frame name="c3" src="c3.html">
  </frameset>
  <frame name="bottom" src="bottom.html">
</frameset>

</html>
```

### bottom.html

```
<!DOCTYPE html>
<html>
<head>
  <title></title>
```

```

        <style>
            p{
                text-align: center;
                font-size: 20px;
            }
        </style>
</head>

<body>
    <p>bhavyashastri122002@gmail.com</p>
    <p>7905973659</p>
</body>
</html>

```

### **c1.html**

```

<!DOCTYPE html>
<html>
<head>
    <style>
        a{
            display: block;
            padding-bottom: 35px;
            font-size: larger;
        }
        a:link{
            color: green;
        }
        a:active{
            color: red;
        }
        a:visited{
            color: blue;
        }
    </style>
</head>
<body>
    <a href="objective.html" target="c2">Objective</a><br>
    <a href="https://en.wikipedia.org/wiki/Aishwarya_Rai_Bachchan#Personal_life"
target="c2">Personal Information</a><br>
    <a href="https://en.wikipedia.org/wiki/Aishwarya_Rai_Bachchan#Personal_life"
target="c2">Family Information</a><br>
    <a href="https://en.wikipedia.org/wiki/Aishwarya_Rai_Bachchan#Career"
target="c2">Educational Information</a><br>
    <a href="https://en.wikipedia.org/wiki/Aishwarya_Rai_Bachchan#Filmography"
target="c2">Experience</a><br>
    <a href="https://en.wikipedia.org/wiki/Aishwarya_Rai_Bachchan#Awards_and_recognition"
target="c2">Achievements</a><br>
    <a href="https://en.wikipedia.org/wiki/Aishwarya_Rai_Bachchan#References"
target="c2">Other</a><br>
</body>

</html>

```

### **c2.html**

```

<!DOCTYPE html>
<html>

```

```
<head>
    <title></title>
</head>
<body>
</body>
</html>
```

### **c3.html**

```
<!DOCTYPE html>
<html>
<head>
<title></title>
</head>

<body>
    
</body>

</html>
```

# OUTPUT

## Bhavya Shastri

Shake it off!!

[Objective](#)

[Personal Information](#)

[Family Information](#)

[Educational Information](#)

[Experience](#)

[Achievements](#)

### References

1. <sup>a</sup> Simon Robinson (15 August 2007). "India's Most Influential" <sup>z</sup>. *Time*. Archived <sup>z</sup> from the original on 2 November 2016.
2. <sup>a</sup> <sup>b</sup> Jatra, Todd (9 March 2001). "India's Celebrity Film Stars" <sup>z</sup>. *Forbes*. Archived <sup>z</sup> from the original on 20 February 2017. Retrieved 3 September 2001.
3. <sup>a</sup> <sup>b</sup> <sup>c</sup> Tricia, McDermott (29 December 2004). "The World's Most Beautiful Woman?" <sup>z</sup>. CBS News. Archived from the original <sup>z</sup> on 29 October 2013.
4. <sup>a</sup> <sup>b</sup> "Simon, Bob. "The most beautiful woman in the world [Aishwarya Rai]". *60 Minutes*. CBS. 29 December 2004.
  - "World's most beautiful woman' Aishwarya Rai gives birth" <sup>z</sup>. *The Daily Telegraph*. 16 November 2011. Archived <sup>z</sup> from the original on 23 April 2018.
  - Hiscock, Geoff (2007). *India's global wealth club* <sup>z</sup>. John Wiley and Sons. p. 6. ISBN 978-0-470-82238-8. Archived <sup>z</sup> from the original on 30 March 2017. Retrieved 29 March 2017.
  - "Meet the Biggest Movie Stars on the Planet (You May Not Have



bhavyashastri122002@gmail.com

7905973659



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

### **SOURCE CODE:**

```
<!DOCTYPE html>
<html>
<head>
    <title>IFrame</title>
    <style>
        iframe{
            width: 500px;
            height: 280px;
            border: 3px solid black;
        }
    </style>
</head>

<body>
    <h1>IFrame 1</h1>
    <iframe
src="https://img.wallscLOUD.net/uploads/thumb/1116608871/%D0%A1%D0%B2%D0%B5%D1%80%D0%BA
%D0%B0%D1%8E%D1%89%D0%B8%D0%B5_%D1%80%D0%BE%D0%B7%D1%8B-1024x576-MM-
80.webp"></iframe>
    <h1>IFrame 2</h1>
    <iframe src="https://www.youtube.com/embed/u3FLVbNn9Os"></iframe>
</body>

</html>
```

## OUTPUT

### IFrame 1



### IFrame 2

Python TensorFlow Tutorial for Beginners  
Deep Learning- Handwritten Digits Recognition...

# Handwritten digits Classification

The diagram illustrates a deep learning architecture for handwritten digit classification. On the left, two handwritten digits, '8' and '5', are shown as input. A blue arrow points from these inputs to a central neural network diagram. The neural network consists of three layers of nodes: an input layer with 4 nodes, a hidden layer with 4 nodes, and an output layer with 10 nodes. A red play button icon is overlaid on the neural network. To the right of the network, a blue box contains the digit '8', labeled 'Output'. Below the network, the text 'Deep Learning architecture' is written. To the right of the output box, the text 'Step By Step' is written in purple. At the bottom right, the word 'Implementation' is written in italicized black.

8  
...

5

8

Output

Step By Step

Deep Learning architecture

*Implementation*

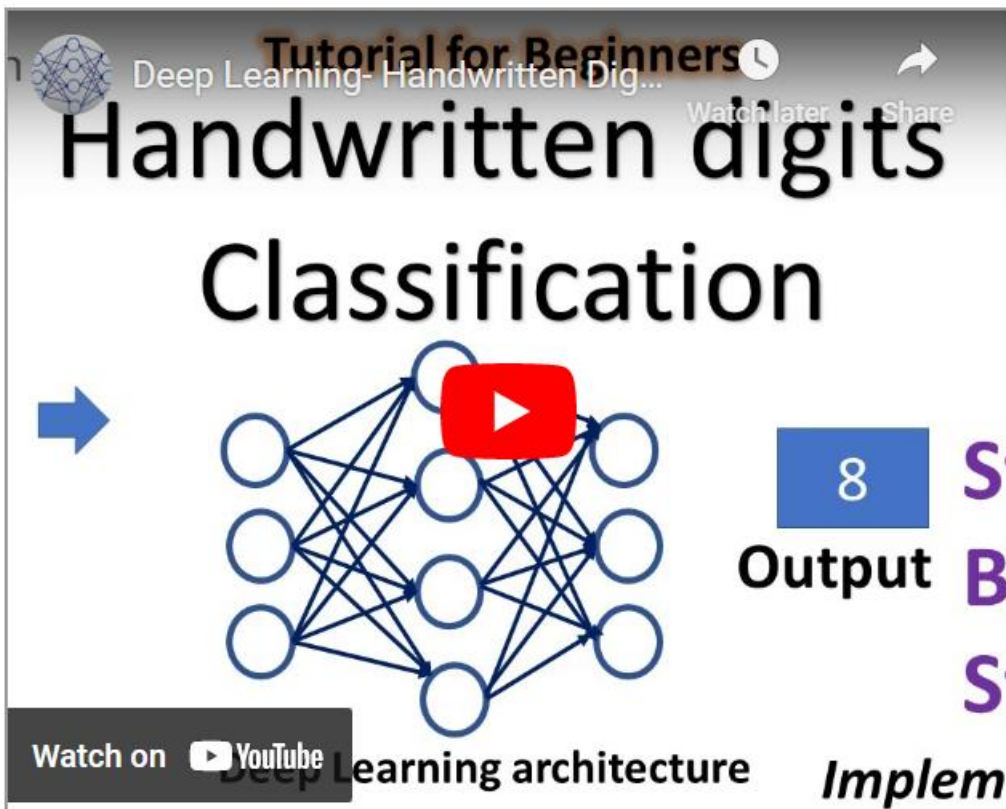
## **Program No. 07: Create a program to run YouTube video in a web page:**

### **SOURCE CODE:**

```
<!DOCTYPE html>
<html>
<head>
  <title>PLAY VIDEO</title>
    <style>
      iframe{
        width:500px;
        height:400px;
      }
    </style>
</head>

<body>
  <iframe src="https://www.youtube.com/embed/u3FLVbNn9Os">
  </iframe>
</body>
</html>
```

## OUTPUT




Tutorial for Beginners

Deep Learning- Handwritten Dig...

Watch later Share

# Handwritten digits Classification

➔



8

Output

Watch on YouTube

Deep Learning architecture

Implem

The image is a YouTube video thumbnail. At the top, it says 'Tutorial for Beginners' and 'Deep Learning- Handwritten Dig...'. Below this, the title 'Handwritten digits Classification' is prominently displayed. A blue arrow points from the left towards a diagram of a neural network with three layers of nodes. A red play button icon is overlaid on the neural network diagram. To the right of the diagram, a blue box contains the number '8', with the word 'Output' below it. At the bottom left, there is a 'Watch on YouTube' button. At the bottom right, the text 'Deep Learning architecture' and 'Implem' are visible.

**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>
<head>
    <title>FORM</title>
    <style>

    </style>
</head>
<body>
    <form>
        <fieldset>
            <legend>Basic Info </legend>
            Salutation <select>
                <option value="Mr">Mr</option>
                <option value="Ms">Ms</option>
                <option value="Mrs">Mrs</option>
            </select><br>
            Full Name <input type="text" placeholder="Full Name"><br />
            Birth Date <input type="date"><br>
            Gender <input type="radio" name="gender">Male
            <input type="radio" name="gender">Female<br>
            Address <textarea placeholder="Tpye"></textarea><br>
            Phone NO. <input type="number"><br>
```

Photograph<input type="file"><br>  
Email<input type="email">

</fieldset>

<fieldset>

<legend>Extra Info</legend>

Interests<input type="checkbox" name="interest">Books

<input type="checkbox" name="interest">Movies

<input type="checkbox" name="interest">Videogames<br>

Favourite<input type="color"><br>

</fieldset>

<input type="submit" value="Send Data"> <input type="reset" value="Reset form">

</form>

</body>

# OUTPUT

Basic Info

Salutation

Mr

Full Name

Full Name

Birth Date

dd-mm-yyyy

Gender

☐ Male

☐ Female

Address

Type

Phone NO.

Photograph

Choose File

No file chosen

Email

Extra Info

Interests

☐ Books

☐ Movies

☐ Videogames

Favourite

Send Data

Reset form

**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>
<head>
  <title>MY FORM</title>
  <style>
    fieldset{
      width:500px;
      padding:10px;
      margin:20px;
    }
    body{
      display: flex;
      justify-content: center;
      align-items: center;
    }
  </style>
</head>

<body>
  <fieldset>

    Name<input type="text" placeholder="Full Name"><br>
    Address<textarea placeholder="Type here"></textarea><br>
    Age<input type = "number"><br>
    Gender<select>
      <option value="Male">Male</option>
      <option value="Female">Female</option>
    </select><br>
    Room Type<input type="radio" name="rooms">A/C
    <input type="radio" name="rooms">Non-A/C
    <input type="radio" name="rooms">Deluxe<br>
    Payment<select>
      <option value="Cash" >Cash</option>
      <option value="Credit" checked="checked">Credit/Debit Card</option>
      <option value="Coupons" >Coupons</option>
    </select><br>

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



OUTPUT

---

Name

Full Name

Type here

Address

Age

Gender

Male

Room Type

☐ A/C

☐ Non-A/C

☐ Deluxe

Payment

Cash



# 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>
<head>
  <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="/"> It's me !!</a>
  <a href="/"> Bhavya !!</a>
  <a href="/"> Hii there !!!</a>
</body>
</html>
```

## OUTPUT

It's me !!

Bhavya !!

Hii there !!!

---

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

### SOURCE CODE:

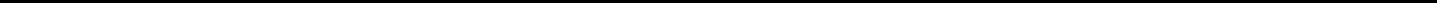
```
<!DOCTYPE html>
<html>
<head>
    <title>Shadow</title>
    <style>
        h1{
            text-shadow: 2px 2px black;
        }
        div{
            border: 1px solid black;
            box-shadow: 20px 20px black;
        }
    </style>
</head>
<body>
    <h1>Text Shadow</h1>
    <div>
        <p>Box Shadow</p>
        <p>Hello</p>
    </div>
</body>
</html>
```

OUTPUT

**Text Shadow**

Box Shadow

Hello



## **Program No. 03: Create Rounded Corners using css3.**

### **SOURCE CODE:**

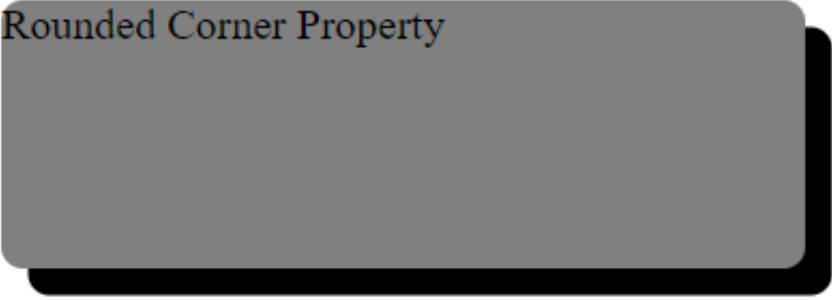
```
DOCTYPE html>
<html>
<head>
  <title>CSS</title>
  <style>

    div{
      width: 300px;
      height: 100px;
      background-color: gray;
      box-shadow: 10px 10px;
      border-radius: 8px;
    }
  </style>
</head>

<body>
  <div>Rounded Corner Property</h1>
</body>
</html>
```

## OUTPUT

Rounded Corner Property



---

## 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>
```

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</div>

</body>

</html>

OUTPUT

Newspaper Layout

Lorem ipsum dolor sit amet, consectetur adipiscing 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 pariat 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>
<head>
    <title>Transition</title>
    <style>
        div{
            width: 100px;
            height: 100px;
            background: pink;
            transition: width 2s, height 4s;
        }
        div:hover{
            width: 300px;
            height: 300px;
        }
    </style>
</head>

<body>
    <p>Hover over the div tag to see transition effect</p>
    <div>Hello</div>
</body>
</html>
```

## OUTPUT

Hover over the div tag to see transition effect

Hello



**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>
<head>
    <title>Bg Image</title>
    <style>
        body{
            background-image:
url("https://c4.wallpaperflare.com/wallpaper/771/617/135/winter-snow-trees-ice-wallpaper-preview.jpg");
            background-attachment: fixed;
        }
    </style>
</head>

<body>
    <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt
ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut
aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu
fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit
anim id est laborum.</p>

</body>
</html>
```

# OUTPUT

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit animi id est laborum.



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

**SOURCE CODE:**

```
<!DOCTYPE html>
<html>
<head>
    <title>Bg Image</title>
    <style>
        body{
            background-image:
url("https://c4.wallpaperflare.com/wallpaper/771/617/135/winter-snow-trees-ice-wallpaper-preview.jpg");
            background-repeat: repeat-y;
            background-size: 200px 200px;
        }
    </style>
</head>

<body>
    <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt
ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut
aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu
fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit
anim id est laborum.</p>

</body>
</html>
```

# OUTPUT

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.





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

### SOURCE CODE:

```
<!DOCTYPE html>
<html>
<head>
    <title>Resize Bg</title>
    <style>
        body{
            background-image:
url("https://c4.wallpaperflare.com/wallpaper/771/617/135/winter-snow-trees-ice-wallpaper-preview.jpg");
            background-size: 400px 400px;
            width: 100px;
            height: 650px;
        }
    </style>
</head>
<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>
<head>
  <title>Web page using CSS</title>
</head>
<style>
  body{
    background-image: url("https://static.javatpoint.com/tutorial/artificial-neural-network/images/artificial-
neural-network3.png");
    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{
```

```

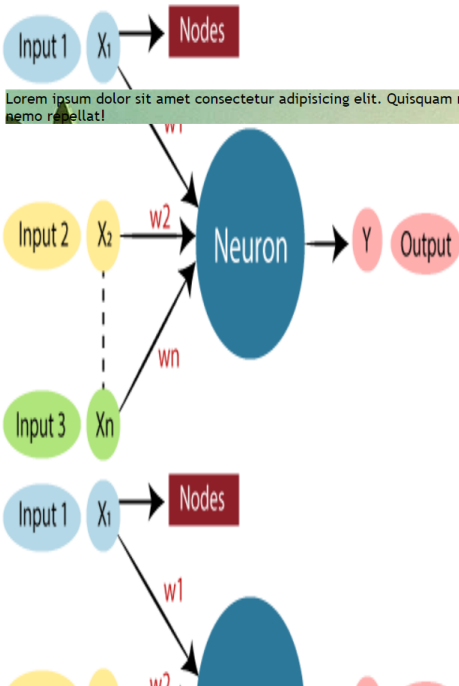
    color: bisque;
    cursor: col-resize;
}
a:hover{
    color: blueviolet;
    cursor: copy;
}
.layer1{
    font-size: 40px;
    font-family: Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;
    text-decoration: underline;
    position: absolute;
    top: 250px;
    left: 740px;
    z-index: -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

127.0.0.1:5500/index.html

Gmail YouTube Maps WhatsApp Every Photoshop T... Cisco

Card Type

Card Number:

127.0.0.1:5500 says

Your card is valid

OK

127.0.0.1:5500/index.html

Gmail YouTube Maps WhatsApp Every Photoshop T... Cisco

Card Type

Card Number:

127.0.0.1:5500 says

Your card is not valid

OK



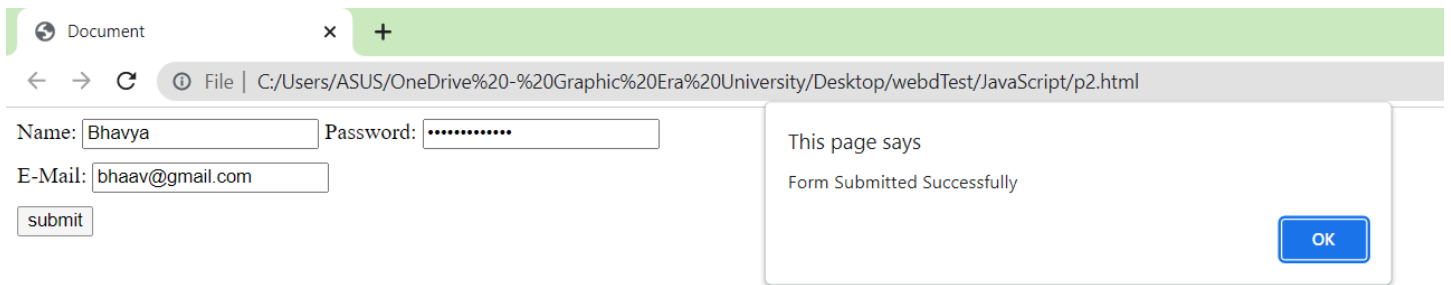
**Program No. 02: Write a java script to validate the following fields in a registration page:**

- **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

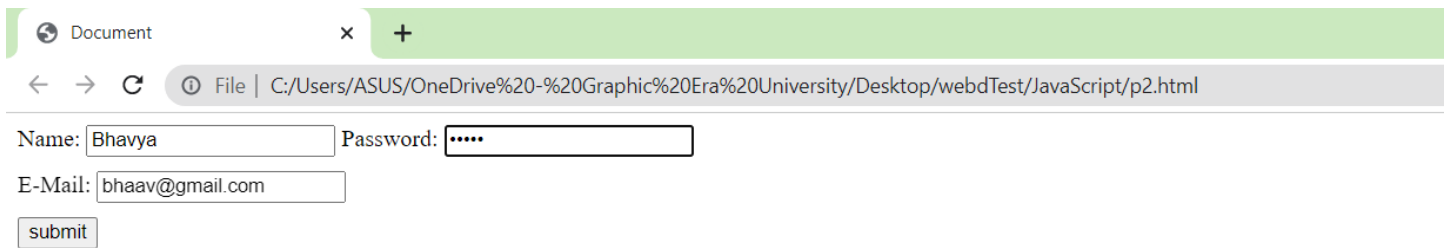


A screenshot of a web browser window. The address bar shows the file path: C:/Users/ASUS/OneDrive%20-%20Graphic%20Era%20University/Desktop/webdTest/JavaScript/p2.html. The form contains the following fields: Name: Bhavya, Password: (masked with dots), E-Mail: bhaav@gmail.com, and a submit button. A modal dialog box is displayed on the right, containing the text "This page says" and "Form Submitted Successfully", with an OK button.

Name:  Password:

E-Mail:

This page says  
Form Submitted Successfully



A screenshot of a web browser window, identical to the one above, but without the success message modal. The form fields are: Name: Bhavya, Password: (masked with dots), E-Mail: bhaav@gmail.com, and a submit button.

Name:  Password:

E-Mail:

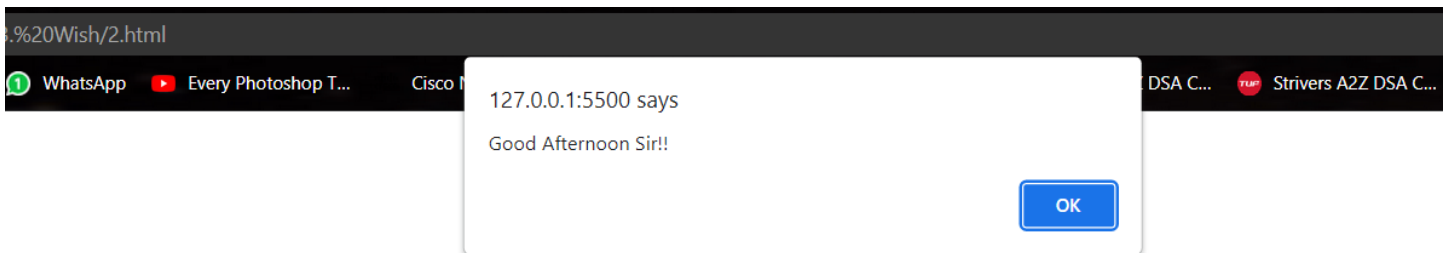
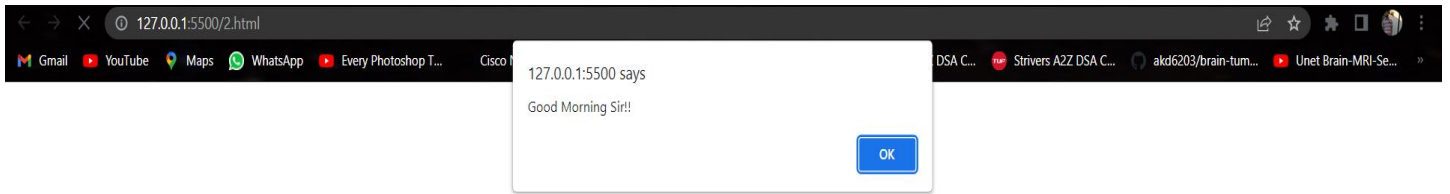
**Program No. 03: Write a java script program to "Wish a user " at different hours of a day.**

**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

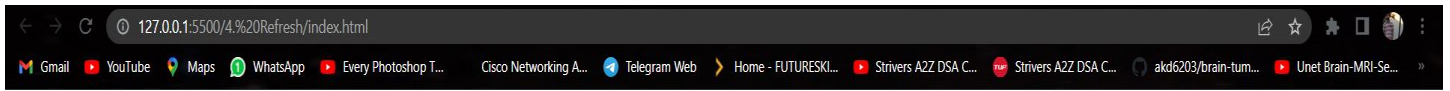


**Program No. 04: Design a web page that self-modifying itself after every one minute.**

**SOURCE CODE:**

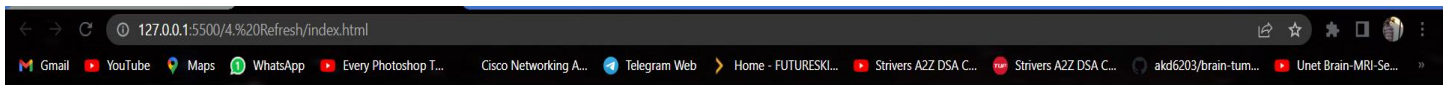
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Refresh</title>
</head>
<style>
  p{
    text-align: center;
    font-size: x-large;
  }
</style>
<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

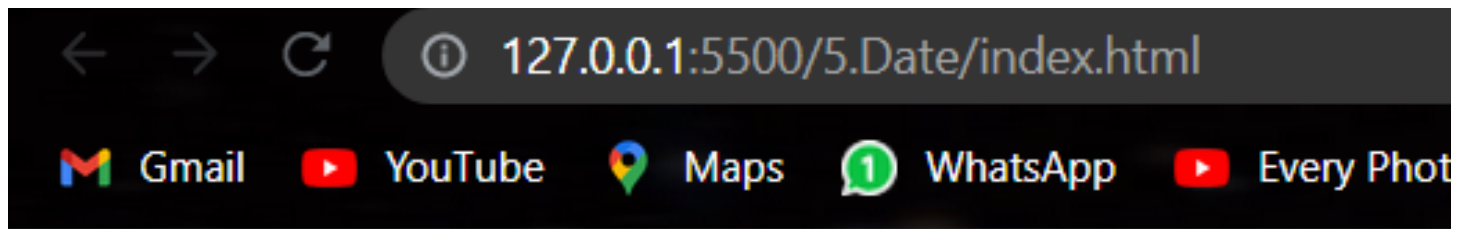
**Program No. 05: Write a code for web application, which accepts the birth date from the user in a textbox and display the day of the week in a message box on the click of a button.**

**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:



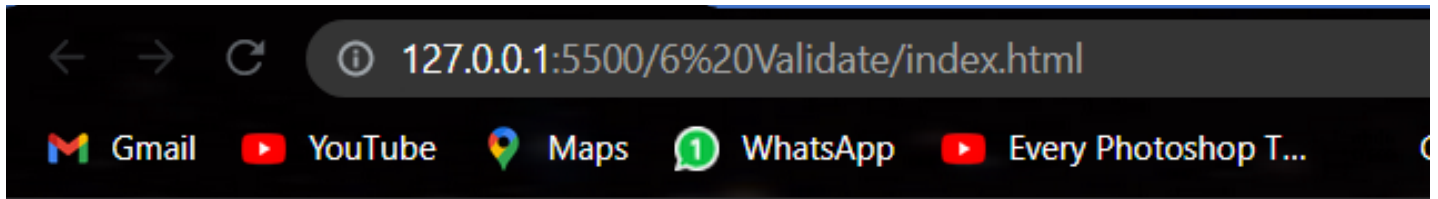
**Program No. 06: Write a script that inputs a telephone number as a string in the form (555)555-555. The script should use strings method split to extract the area code as token and the last four digits of the phone numbers as a token. Display the area code in one text field and the seven-digit phone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

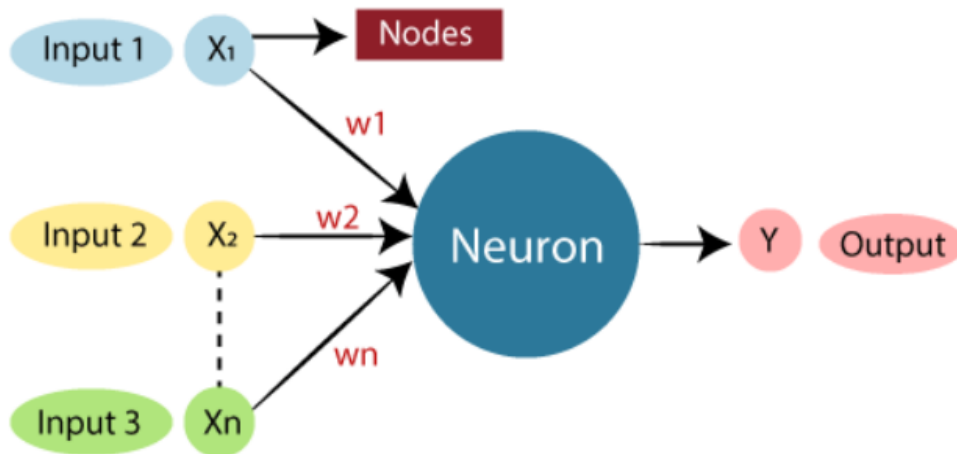
**Program No. 08: Create a web page that applies the invert filter to an image if the user moves the mouse over it.**

**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>
```

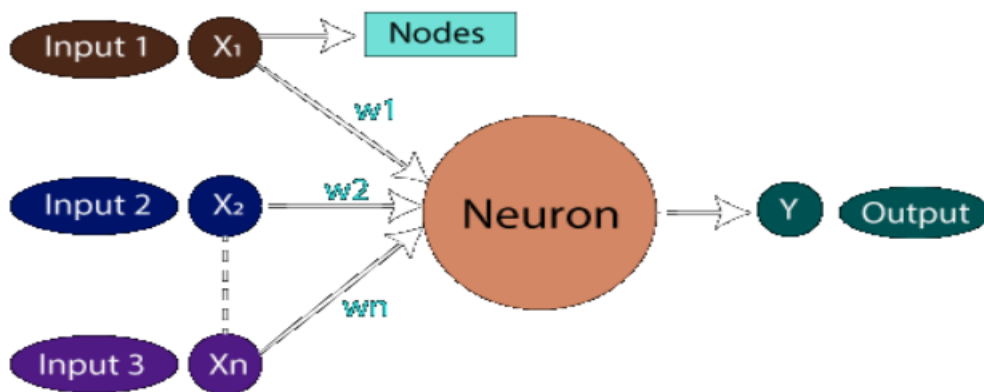
## OUTPUT

**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:**

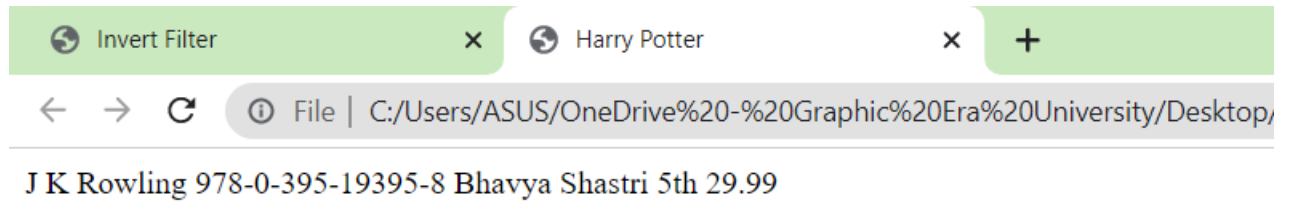
### **XML FILE:**

```
<?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>Bhavya Shastri </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>Bhavya Shastri </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

XML PARSING

×

+

← → ↺

File | C:/Users/ASUS/OneDrive%20-%20Graphic%20Era%20University/Desktop/webdTest/xml/

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