**Program 1:**

**Demonstrate all the text formatting tags in a single HTML page.**

**HTML Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

    <p >

        <b >this is bold</b><br>

        <i >this is italic</i><br>

        <em >this is emphasize</em><br>

        <strong >strong tag</strong><br>

        <mark >marked text</mark><br>

        <del>deketed text</del><br>

        <ins>inserted text</ins><br>

        <p>this is <sub >subscript text</sub></p><br>

        <p>this is <sup >superscript </sup></p><br>

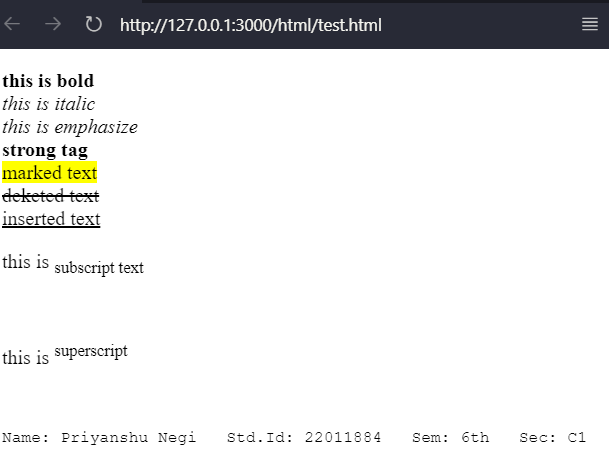
    </p>

<pre>Name: Priyanshu Negi   Std.Id: 22011884   Sem: 6th   Sec: C1</pre>

</body>

</html>

**Output:**

****

**Program 2:**

**Write an HTML code to draw the following Figure:**



**HTML Code-:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

    <pre>

      \*

    \* \* \*

  \* \* \* \* \*

\* \* \* \* \* \* \*

    </pre>

<pre>Name: Priyanshu Negi   Std.Id: 22011884   Sem: 6th   Sec: C1</pre>

</body>

</html>

**Output**:-

A screenshot of a computer

AI-generated content may be incorrect.

**Program 3:**

**Create a web page to print the following table:**

A list of course subject

AI-generated content may be incorrect.

**HTML Code-:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Table </title>

</head>

<body>

    <br>

    <b><center>List of course-wise Subjects</center></b><br>

    <table border="1px">

        <tr>

            <th rowspan="2">Sr. No.</th>

            <th rowspan="2">Course</th>

            <th rowspan="2">Subject</th>

            <th colspan="2">Marks</th>

            <th colspan="2">Category</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 >&check;</td>

            <td>Theory</td>

        </tr>

        <tr>

            <td >Information Technology</td>

            <td >30</td>

            <td >70</td>

            <td >-</td>

            <td >&check;</td>

            <td>T and P</td>

        </tr>

        <tr>

            <td >Basics of Marketing</td>

            <td >30</td>

            <td >70</td>

            <td >-</td>

            <td >&check;</td>

            <td>Theory</td>

        </tr>

        <tr>

            <td >E-Commerce</td>

            <td >50</td>

            <td >-</td>

            <td >&check;</td>

            <td >-</td>

            <td>Theory</td>

        </tr>

        <tr>

            <td rowspan="6">2</td>

            <td rowspan="6">MCM</td>

            <td >Virtual Basics</td>

            <td >30</td>

            <td >70</td>

            <td >-</td>

            <td >&check;</td>

            <td>T and P</td>

        </tr>

        <tr>

            <td >Internet Technology</td>

            <td >30</td>

            <td >70</td>

            <td >-</td>

            <td >&check;</td>

            <td>T and P</td>

        </tr>

        <tr>

            <td >Network Technology</td>

            <td >30</td>

            <td >70</td>

            <td >-</td>

            <td >&check;</td>

            <td>Theory</td>

        </tr>

        <tr>

            <td >VB.Net</td>

            <td >30</td>

            <td >70</td>

            <td >-</td>

            <td >&check;</td>

            <td>T and P</td>

        </tr>

        <tr>

            <td >Linux</td>

            <td >30</td>

            <td >70</td>

            <td >-</td>

            <td >&check;</td>

            <td>T and P</td>

        </tr>

        <tr>

            <td >ISA</td>

            <td >50</td>

            <td >70</td>

            <td >&check;</td>

            <td >-</td>

            <td>Theory</td>

        </tr>

    </table>

<pre>Name: Priyanshu Negi   Std.Id: 22011884   Sem: 6th   Sec: C1</pre>

</body>

</html>

**Output**:

A list of course subject

AI-generated content may be incorrect.

**Program 4**

**Using table related tags align the images with hyperlinks.**

****

**HTML Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>ISP</title>

    <style>

        .pict{

            width: 150px;

            height: 100px;

        }

    </style>

</head>

<body>

    <table border="1px">

        <tr>

            <td><a href="https://bsnl.co.in/"><img src="https://shorturl.at/owOEe" alt="bsnl" class="pict"></a></td>

            <td><a href="https://www.myvi.in/"><img src="https://shorturl.at/vPKkS" alt="vodafone"class="pict"></a></td>

            <td><a href="https://www.airtel.in/"><img src="https://shorturl.at/rK7OD" alt="airtel" class="pict"></a></td>

            <td><a href="https://www.docomo.ne.jp/english/"><img src="https://shorturl.at/3y01D" alt="docomo"class="pict"></a></td>

        </tr>

        <tr>

            <td><a href="https://www.telenor.com/"><img src="https://shorturl.at/XlGtE" alt="telenor" class="pict"></a></td>

            <td colspan="2"><center>Table with images</center></td>

            <td><a href="https://www.aircel.com/"><img src="https://tinyurl.com/hy4cdy43" alt="aircel" class="pict"></a></td>

        </tr>

        <tr>

            <td><a href="https://www.mtctelcom.com/"><img src="https://tinyurl.com/1asnx91jsx" alt="mtc" class="pict"></a></td>

            <td><a href="https://hutch.lk/"><img src="https://tinyurl.com/qsxb88q" alt="hutch" class="pict"></a></td>

            <td><a href="https://www.mtctelcom.com/"><img src="https://tinyurl.com/cj0921hsc" alt="mtc" class="pict"></a></td>

            <td><a href="https://www.tatacommunications.com/solutions/move/mobile-virtual-network-enabler-services/"><img src="https://tinyurl.com/qcmnq89y9c" alt="tata" class="pict"></a></td>

        </tr>

    </table>

<pre>Name: Priyanshu Negi   Std.Id: 22011884   Sem: 6th   Sec: C1</pre>

</body>

</html>

**Output:**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Program 5.**

**Create a web page with the following using HTML:**

1. **To embed an image map in a web page**
2. **To fix the hot spots**
3. **Show all the related information when the hot spots are clicked.**

**HTML Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

    <img src="lang.webp" alt="" usemap="#map1">

    <map name="map1">

        <area shape="rectangle" coords="124px 100px 205px 182px" href="https://angular.dev/" target="\_blank" alt="">

        <area shape="rectangle" coords="250px 100px 333px 184px" href="https://vite.dev/" target="\_blank" alt="">

        <area shape="rectangle" coords="122px 228px 205px 313px" href="https://react.dev/" target="\_blank" alt="">

        <area shape="rectangle" coords="292px 230px 377px 314px" href="https://www.javascript.com/" target="\_blank" alt="">

        <area shape="rectangle" coords="207px 314px 289px 397px" href="https://www.ruby-lang.org/en/" target="\_blank" alt="">

    </map>

<pre>Name: Priyanshu Negi   Std.Id: 22011884   Sem: 6th   Sec: C1</pre>

</body>

</html>

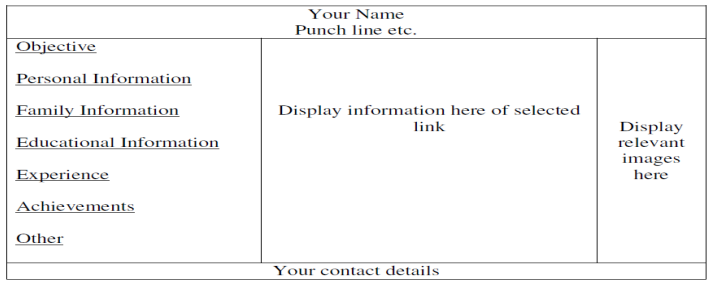
**Output:**

**A group of logos on a white background

AI-generated content may be incorrect.**

**Program 6:**

**Create a web page having frames as follows:**

****

**HTML Code:**

1. **Main code**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>IFrame</title>

</head>

<body>

    <table border="1">

        <tr>

            <th colspan="3">Priyanshu Negi</th>

        </tr>

        <tr>

            <td>

                <iframe src="links.html" ></iframe>

            </td>

            <td>

                <iframe src="" name="iframe2"></iframe>

            </td>

            <td>

                <iframe src="iframe3.html"></iframe>

            </td>

        </tr>

        <tr>

            <td colspan="3"><center>Contact Details: </center></td>

        </tr>

    </table>

<pre>Name: Priyanshu Negi   Std.Id: 22011884   Sem: 6th   Sec: C1</pre>

</body>

</html>

1. **Links code**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

    <a href="obj.html" target="iframe2">Objective</a><br>

    <a href="personal.html"target="iframe2">Personal Information</a><br>

    <a href="family.html"target="iframe2">Family Information</a><br>

    <a href="education.html"target="iframe2">Education Information</a><br>

    <a href="experience.html"target="iframe2">Experience</a><br>

    <a href="achievement.html"target="iframe2">Achievements</a><br>

    <a href="other.html"target="iframe2">Other</a>

</body>

</html>

**Output:**

**A white rectangular object with black text

AI-generated content may be incorrect.**

**Program 7:**

**Write a HTML code for the following snapshot.**

A screenshot of a computer

AI-generated content may be incorrect.

**HTML Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Form</title>

</head>

<body>

    <form action="">

        <fieldset>

            <legend>Basic Information</legend><br>

            <label for="name">Full Name: </label>

            <input type="text" name="" id="name"><br><br>

            <label for="dob">Birth Date: </label>

            <input type="text" name="" id="dob"><br><br>

            <label>Gender: </label>

            <input type="radio" name="" id="male">

            <label for="male">Male</label>

            <input type="radio" name="" id="female">

            <label for="female">Female</label><br><br>

            <label for="address">Address: </label>

            <input type="text" name="" id="address"><br><br>

            <label for="p\_no">Phone Number: </label>

            <input type="text" name="" id="p\_no"><br><br>

        </fieldset>

        <fieldset>

            <legend>Extra Information</legend><br>

            <label for="">Interests: </label>

            <input type="checkbox" name="" id="books">

            <label for="books">Books</label>

            <input type="checkbox" name="" id="movies">

            <label for="movies">Movies</label>

            <input type="checkbox" name="" id="videogames">

            <label for="videogames">Videogames</label><br><br>

            <label for="color">Favorite color</label>

            <input type="color" name="" id="color"><br><br>

        </fieldset>

        <br>

        <button type="submit">Send data</button>

        <button type="reset">Reset form</button>

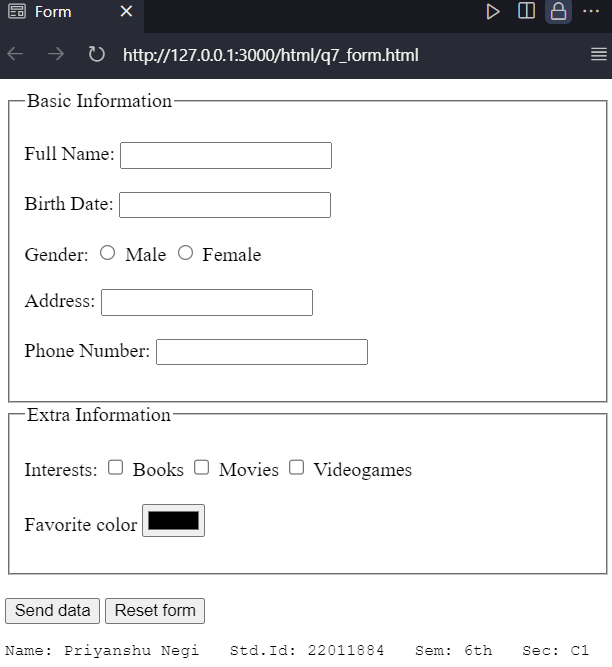
    </form>

<pre>Name: Priyanshu Negi   Std.Id: 22011884   Sem: 6th   Sec: C1</pre>

</body>

</html>

**Output:**

****

**Program 8:**

**Create a web page of customer profile for data entry of customers 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).**

**HTML Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>XYZ Hotel</title>

</head>

<body>

    <h1>Customer Profile </h1>

    <form >

        <fieldset>

            <legend>Personal Information</legend><br>

            <label for="name">Name: </label>

            <input type="text" name="" id="name"><br><br>

            <label for="add">Address: </label>

            <input type="text" name="" id="add"><br><br>

            <label for="age">Age: </label>

            <input type="number" name="" id="age"><br><br>

            <label>Gender: </label>

            <input type="radio" name="" id="m">

            <label for="m">Male </label>

            <input type="radio" name="" id="f">

            <label for="f">Female </label><br><br>

        </fieldset>

        <br>

        <fieldset>

            <legend>Room details</legend><br>

            <label for="">Room Type: </label>

            <input type="radio" name="" id="ac">

            <label for="ac">A/C</label>

            <input type="radio" name="" id="nac">

            <label for="nac">Non-A/C</label>

            <input type="radio" name="" id="Deluxe">

            <label for="Deluxe">Deluxe</label><br><br>

        </fieldset><br>

        <fieldset>

            <legend>Payment details</legend><br>

            <label for="">Type of Payment: </label>

            <input type="radio" name="" id="cash">

            <label for="cash">Cash</label>

            <input type="radio" name="" id="card">

            <label for="card">Credit/Debit card</label>

            <input type="radio" name="" id="coupon">

            <label for="coupon">Coupons</label><br><br>

        </fieldset>

        <br>

        <button type="submit">Submit</button>

        <button type="reset">reset </button>

    </form>

<pre>Name: Priyanshu Negi   Std.Id: 22011884   Sem: 6th   Sec: C1</pre>

</body>

</html>

**Output:**

**A screenshot of a customer profile

AI-generated content may be incorrect.**

**Program 10:**

Design an HTML page to create the following list.

**HTML Code:**

<!DOCTYPE *html*>

<html *lang*="en">

<head>

    <meta *charset*="UTF-8">

    <meta *name*="viewport" *content*="width=device-width, initial-scale=1.0">

    <title>Programming and Web Development</title>

    <style>

        body {

            font-family: Arial, sans-serif;

        }

        ul {

            list-style-type: disc;

        }

        ul ul {

            list-style-type: square;

        }

        ul ul ul {

            list-style-type: circle;

        }

    </style>

</head>

<body>

    <h2>1. <strong>Programming Languages</strong></h2>

    <ul>

        <li><strong>Python</strong>

            <ul>

                <li>Frameworks

                    <ol>

                        <li>Django</li>

                        <li>Flask</li>

                    </ol>

                </li>

                <li>Libraries

                    <ul>

                        <li>NumPy</li>

                        <li>Pandas</li>

                        <li>Matplotlib</li>

                    </ul>

                </li>

            </ul>

        </li>

        <li><strong>Java</strong>

            <ul>

                <li>Core Concepts

                    <ul>

                        <li>OOP</li>

                        <li>Multithreading</li>

                        <li>Exception Handling</li>

                    </ul>

                </li>

                <li>Frameworks

                    <ol>

                        <li>Spring</li>

                        <li>Hibernate</li>

                    </ol>

                </li>

            </ul>

        </li>

    </ul>

    <h2>2. <strong>Web Development</strong></h2>

    <ul>

        <li><strong>Frontend</strong>

            <ul>

                <li>HTML</li>

                <li>CSS</li>

                <li>JavaScript

                    <ul>

                        <li>React</li>

                        <li>Vue.js</li>

                        <li>Angular</li>

                    </ul>

                </li>

            </ul>

        </li>

        <li><strong>Backend</strong>

            <ul>

                <li>Node.js</li>

                <li>PHP</li>

                <li>Ruby on Rails</li>

            </ul>

        </li>

    </ul>

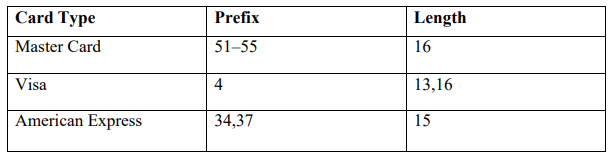
<pre>Name: Priyanshu Negi   Std.Id: 22011884   Sem: 6th   Sec: C1</pre>

</body>

</html>

**Program 20:**

Design a web page to validate credit card numbers per the specifications below. The following tables outline the major credit cards you want to validate and allow prefixes and lengths.



**HTML Code:**

<!DOCTYPE *html*>

<html *lang*="en">

<head>

    <meta *charset*="UTF-8">

    <meta *name*="viewport" *content*="width=device-width, initial-scale=1.0">

    <title>Document</title>

    <style>

        body{

            border: 5px solid black;

            padding: 20px;

            margin: 20px;

        }

    </style>

</head>

<body>

    <label *for*="">Enter card number</label>

    <input *type*="number" *name*="" *id*="inp"><br><br>

    <button *type*="button" *onclick*="validate\_str()">validate</button>

    <div *id*="ans"></div>

    <pre>Name: Priyanshu Negi  Student Id:22011884  Sem: 6th  Sec: C1</pre>

    <script>

         function validate\_str(){

            var num= document.getElementById("inp").value;

            var sub1= num.substring(0,2);

            var sub2= num.substring(0,1);

            if(num.length==16 && (sub1>=51 && sub1<=55)){

                document.getElementById("ans").innerHTML="master card";

            }

            else if((num.length==16 || num.length==13) && (sub2==4)){

                document.getElementById("ans").innerHTML="visa card";

            }

            else if(num.length==15 && (sub1==37 || sub1==34)){

                document.getElementById("ans").innerHTML="ameerican express card";

            }

            else{

                document.getElementById("ans").innerHTML="invalid";

            }

        }

    </script>

</body>

</html>

**Output**

**A close-up of a number

AI-generated content may be incorrect.**

**Program 21:**

Design a web page to validate the following according to the standard conditions.

a. Name

b. E-Mail-id

c. Password.

**HTML Code:**

<!DOCTYPE *html*>

<html *lang*="en">

<head>

    <meta *charset*="UTF-8">

    <meta *name*="viewport" *content*="width=device-width, initial-scale=1.0">

    <title>Document</title>

    <style>

        body{

            border: 5px solid black;

            padding: 20px;

            margin: 20px;

        }

    </style>

</head>

<body>

    <h1>Name</h1>

    <input *type*="text" *placeholder*="Enter name" *name*="" *id*="name"><br><br>

    <button *type*="button" *onclick*="validate\_name()" >validate</button>

    <div *id*="name\_out"></div><br>

    <h1>Email</h1>

    <input *type*="text" *placeholder*="Enter email" *name*="" *id*="email"><br><br>

    <button *type*="button" *onclick*="validate\_email()">validate</button>

    <div *id*="email\_out"></div><br>

    <h1>Password</h1>

    <input *type*="text" *placeholder*="Enter password" *name*="" *id*="pass"><br><br>

    <button *type*="button" *onclick*="validate\_pass()">validate</button>

    <div *id*="pass\_out"></div><br>

    <pre>Name: Priyanshu Negi  Student Id:22011884  Sem: 6th  Sec: C1</pre>

    <script>

        function validate\_name(){

            var name=document.getElementById("name").value;

            if(/^[a-zA-Z ]+$/.test(name)){

                document.getElementById("name\_out").innerHTML="valid";

            }

            else{

                document.getElementById("name\_out").innerHTML="invalid";

            }

        }

        function validate\_email(){

            var email=document.getElementById("email").value;

            if(/^[a-zA-Z0-9]+@[a-zA-Z]+\.[a-zA-Z]{2,}$/.test(email)){

                document.getElementById("email\_out").innerHTML="valid";

            }

            else{

                document.getElementById("email\_out").innerHTML="invalid";

            }

        }

        function validate\_pass(){

            var pass=document.getElementById("pass").value;

            if(/[a-zA-Z0-9]+[@#$%&\_]\*/.test(pass)){

            //if(/^(?=.\*[a-z])(?=.\*[A-Z])(?=.\*[0-9])(?=.\*[!@#\$%\^&\\*])(?=.{8,})/.test(pass)){

                document.getElementById("pass\_out").innerHTML="valid";

            }

            else{

                document.getElementById("pass\_out").innerHTML="invalid";

            }

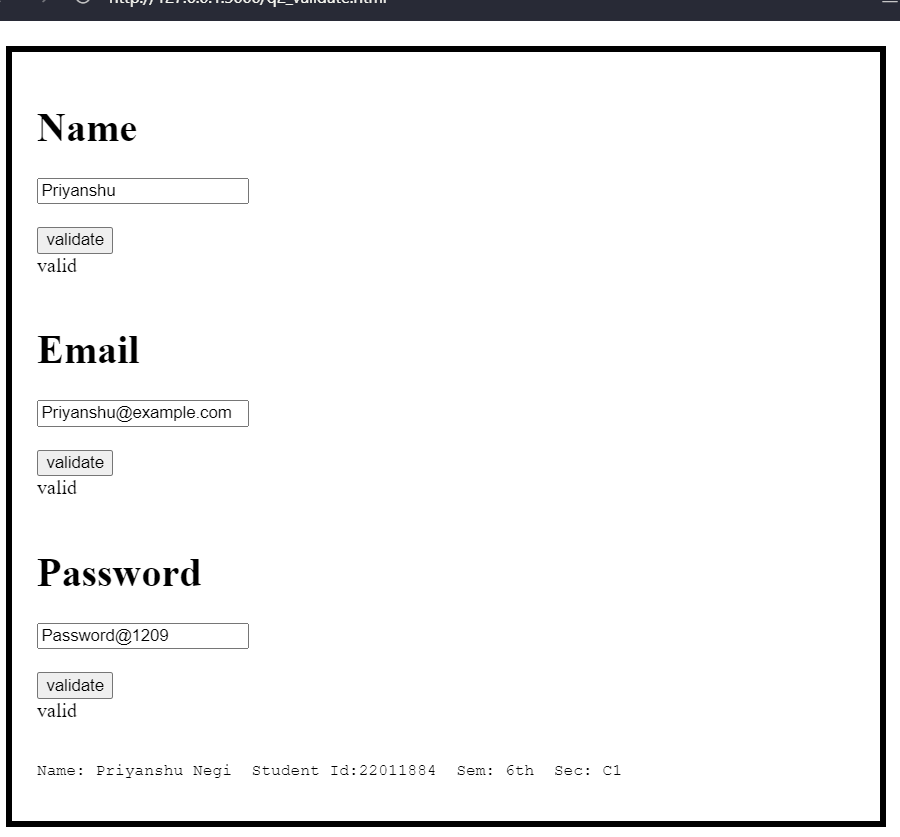
        }

    </script>

</body>

</html>

**Output:**

****

**Program 22**

Store some country names and their capitals. Ask the user to select a country and its capital from two lists. If the match is correct, display “Correct answer”; otherwise, display an error message and tell the correct answer.

**HTML Code:**

<!DOCTYPE *html*>

<html *lang*="en">

<head>

    <meta *charset*="UTF-8">

    <meta *name*="viewport" *content*="width=device-width, initial-scale=1.0">

    <title>Document</title>

    <style>

        body{

            border: 5px solid black;

            padding: 20px;

            margin: 20px;

        }

    </style>

</head>

<body>

    <label *for*="country">Choose country: </label>

    <select *id*="country">

        <option *value*="india">India</option>

        <option *value*="usa">USA</option>

        <option *value*="uk">UK</option>

        <option *value*="australia">Australia</option>

        <option *value*="france">France</option>

    </select><br>

    <label *for*="capital">Choose country: </label>

    <select *name*="" *id*="capital">

        <option *value*="london">London</option>

        <option *value*="delhi">Delhi</option>

        <option *value*="washington">Washington</option>

        <option *value*="paris">Paris</option>

        <option *value*="canberra">Canberra</option>

    </select><br>

    <button *type*="button" *onclick*="validate()">validate</button>

    <div *id*="ans"></div><br>

    <pre>Name: Priyanshu Negi  Student Id:22011884  Sem: 6th  Sec: C1</pre>

    <script>

        function validate(){

            const ctry={

                "india":"delhi",

                "usa":"washington",

                "uk":"london",

                "australia":"canberra",

                "france":"paris"

            }

            var country=document.getElementById("country").value;

            var capital=document.getElementById("capital").value;

            if(ctry[country]==capital){

                document.getElementById("ans").innerHTML="correct";

            }

            else{

                document.getElementById("ans").innerHTML="incorrect";

            }

        }

    </script>

</body>

</html>

**Output:**

**A close-up of a card

AI-generated content may be incorrect.**

**A close-up of a card

AI-generated content may be incorrect.**

**Program 23**

Design the simple Calculator

**HTML Code:**

<!DOCTYPE *html*>

<html *lang*="en">

<head>

    <meta *charset*="UTF-8">

    <meta *name*="viewport" *content*="width=device-width, initial-scale=1.0">

    <title>Document</title>

    <style>

        body{

            border: 5px solid black;

            padding: 20px;

            margin: 20px;

        }

    </style>

</head>

<body>

    <input *type*="number" *placeholder*="Enter number" *name*="" *id*="in1"><br><br>

    <input *type*="number" *placeholder*="Enter number" *name*="" *id*="in2"><br><br>

    <select *name*="" *id*="operator">

        <option *value*="+">+</option>

        <option *value*="-">-</option>

        <option *value*="\*">\*</option>

        <option *value*="/">/</option>

    </select>

    <button *type*="button" *onclick*="calculate()">calculate</button>

    <div *id*="ans"></div><br>

    <pre>Name: Priyanshu Negi  Student Id:22011884  Sem: 6th  Sec: C1</pre>

    <script>

        function calculate(){

            var num1 = *Number*(document.getElementById("in1").value);

            var num2 = *Number*(document.getElementById("in2").value);

            var op =document.getElementById("operator").value;

            var ans;

            if(op=='+'){

                ans=num1+num2;

            }

            else if(op=='-'){

                ans=num1-num2;

            }

            else if(op=='\*'){

                ans=num1\*num2;

            }

            else if(op=='/'){

                ans=num1/num2;

            }

            else{

                ans="invalid";

            }

            document.getElementById("ans").innerHTML=ans;

        }

    </script>

</body>

</html>

**Output:**

**A close-up of a card

AI-generated content may be incorrect.**

**Program 24**

Design a web page that is self-modifying itself after every minute.

**HTML Code:**

<!DOCTYPE *html*>

<html *lang*="en">

<head>

    <meta *charset*="UTF-8">

    <meta *name*="viewport" *content*="width=device-width, initial-scale=1.0">

    <title>Document</title>

    <style>

        body{

            border: 5px solid black;

            padding: 20px;

            margin: 20px;

        }

    </style>

</head>

<body>

    <div *id*="loc"></div>

    <pre>Name: Priyanshu Negi  Student Id:22011884  Sem: 6th  Sec: C1</pre>

    <script>

        function myfun(){

            var d = **new** *Date*();

            document.getElementById("loc").innerHTML = d;

        }

        setInterval(myfun,1000);

    </script>

</body>

</html>

**Output:**

**A close-up of a card

AI-generated content may be incorrect.**

**Program 25**

Write a code for a web application that accepts the user's birthdate in a textbox and displays the day of the week in a message box at the click of a button.

**HTML Code:**

<!DOCTYPE *html*>

<html *lang*="en">

<head>

    <meta *charset*="UTF-8">

    <meta *name*="viewport" *content*="width=device-width, initial-scale=1.0">

    <title>Document</title>

    <style>

        body{

            border: 5px solid black;

            padding: 20px;

            margin: 20px;

        }

    </style>

</head>

<body>

    <label *for*="">Enter birth date</label>

    <input *type*="date" *id*="bd"><br>

    <button *type*="button" *onclick*="myfun()">get day</button>

    <div *id*="loc"></div>

    <pre>Name: Priyanshu Negi  Student Id:22011884  Sem: 6th  Sec: C1</pre>

    <script>

        function myfun(){

            const week=["Sunday","Monday","Tuesday","Wednesday","Thursday","Friday","Saturday"];

            var bd = document.getElementById("bd").value;

            var d = **new** *Date*(bd);

            var day=d.getDay();

            day=week[day];

            document.getElementById("loc").innerHTML = day;

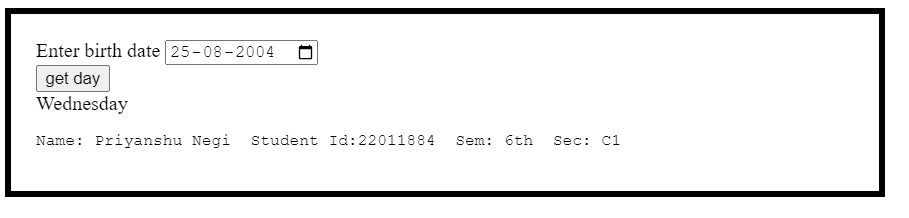
        }

    </script>

</body>

</html>

**Output:**

****

**Program 26**

Write a script that inputs a telephone number as a string in the form (555)555-555. The script should use the strings method split to extract the area code as a token and the last four digits of the phone numbers as a token. Display the area code in one test field and the seven-digit phone number in another text field.

**HTML Code**

<!DOCTYPE *html*>

<html *lang*="en">

<head>

    <meta *charset*="UTF-8">

    <meta *name*="viewport" *content*="width=device-width, initial-scale=1.0">

    <title>Document</title>

    <style>

        body{

            border: 5px solid black;

            padding: 20px;

            margin: 20px;

        }

    </style>

</head>

<body>

    <label *for*="">Enter phone number</label>

    <input *type*="number" *name*="" *id*="inp"><br><br>

    <label *for*="">area code</label>

    <textarea *name*="" *id*="ac"></textarea><br>

    <label *for*="">number</label>

    <textarea *name*="" *id*="an"></textarea><br>

    <button *type*="button" *onclick*="extract()">validate</button>

    <pre>Name: Priyanshu Negi  Student Id:22011884  Sem: 6th  Sec: C1</pre>

    <script>

        function extract(){

            var num= document.getElementById("inp").value;

            var ac= num.substring(0,3);

            var an= num.substring(3,9);

            document.getElementById("ac").innerHTML=ac;

            document.getElementById("an").innerHTML=an;

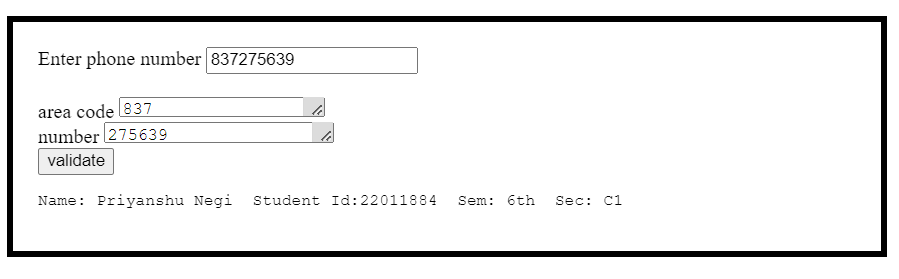
        }

    </script>

</body>

</html>

**Output**

****

**Program 27**

Develop and demonstrate an HTML file that includes a JavaScript script that uses functions for the following problems:

1. Parameter: A string

Output: The position in the string of the left-most vowel

1. Parameter: A number

Output: The number with its digits in the reverse order.

**HTML Code:**

<!DOCTYPE *html*>

<html *lang*="en">

<head>

    <meta *charset*="UTF-8">

    <meta *name*="viewport" *content*="width=device-width, initial-scale=1.0">

    <title>Document</title>

    <style>

        body{

            border: 5px solid black;

            padding: 20px;

            margin: 20px;

        }

    </style>

</head>

<body>

    <label *for*="str">Enter a string: </label>

    <input *type*="text" *name*="" *id*="str"><br><br>

    <button *type*="button" *onclick*="find\_first\_vowel()">Find vowel</button>

    <div *id*="vow"></div><br><br>

    <label *for*="num">Enter a  number: </label>

    <input *type*="number" *name*="" *id*="num"><br><br>

    <button *type*="button" *onclick*="reverse\_number()">Reverse number</button>

    <div *id*="rev"></div><br><br>

    <pre>Name: Priyanshu Negi  Student Id:22011884  Sem: 6th  Sec: C1</pre>

    <script>

        function find\_first\_vowel(){

            var str= document.getElementById("str").value;

            var vowels="aeiouAEIOU";

            for(var i=0;i<str.length;i++){

                if(vowels.includes(str[i])){

                    document.getElementById("vow").innerHTML="First vowel is at: "+i;

                    break;

                }

            }

        }

        function reverse\_number(){

            var num= document.getElementById("num").value;

            var rev=0;

            while(num>0){

                var rem= num%10;

                rev= rev\*10+rem;

                num= parseInt(num/10);

            }

            document.getElementById("rev").innerHTML="Reversed number is: "+rev;

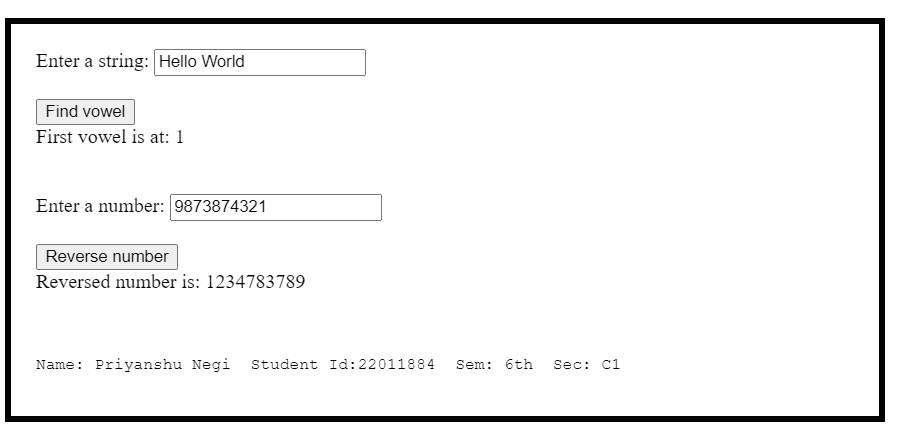
        }

    </script>

</body>

</html>

**Output:**

****

**Program 28**

Write a JavaScript function that takes a string that has lower and upper case letters as a parameter and converts upper case letters to lower case and lower case letters to upper case.

**HTML Code:**

<!DOCTYPE *html*>

<html *lang*="en">

<head>

    <meta *charset*="UTF-8">

    <meta *name*="viewport" *content*="width=device-width, initial-scale=1.0">

    <title>Document</title>

    <style>

        body{

            border: 5px solid black;

            padding: 20px;

            margin: 20px;

        }

    </style>

</head>

<body>

    <label *for*="">Enter a string</label>

    <input *type*="text" *name*="" *id*="inp"><br>

    <button *type*="button" *onclick*="inverse\_case()">Change case</button>

    <div *id*="ans"></div>

    <pre>Name: Priyanshu Negi  Student Id:22011884  Sem: 6th  Sec: C1</pre>

    <script>

        function inverse\_case(){

            var str= document.getElementById("inp").value;

            var ans="";

            for(var i=0;i<str.length;i++){

                if(str[i]==str[i].toUpperCase()){

                    ans+=str[i].toLowerCase();

                }

                else{

                    ans+=str[i].toUpperCase();

                }

            }

            document.getElementById("ans").innerHTML=ans;

        }

    </script>

</body>

</html>

**Output**

**A close-up of a credit card

AI-generated content may be incorrect.**

**Program 29**

Design a web page to perform a survey on four different models of Maruti (Maruti -K10, ZenAstelo, Wagnor, Maruti- SX4) owned by people living in four metro cities(Delhi, Mumbai, Chennai & Kolkatta). Display tabulated report like format given below:

A table with black text

AI-generated content may be incorrect.

Calculate the number of cars of different models in each metro city.

**HTML Code**

<!DOCTYPE *html*>

<html *lang*="en">

<head>

    <meta *charset*="UTF-8">

    <meta *name*="viewport" *content*="width=device-width, initial-scale=1.0">

    <title>Document</title>

    <style>

        body{

            border: 5px solid black;

            padding: 20px;

            margin: 20px;

        }

    </style>

</head>

<body>

    <label *for*="city">City</label>

    <select *name*="" *id*="city">

        <option *value*="D">Delhi</option>

        <option *value*="M">Mumbai</option>

        <option *value*="C">Chennai</option>

        <option *value*="K">Kolkata</option>

    </select>

    <label *for*="car">car</label>

    <select *name*="" *id*="car">

        <option *value*="mk">Maruti-K10</option>

        <option *value*="z">Zen-Astelo</option>

        <option *value*="w">Wagnor</option>

        <option *value*="ms">Maruti-SX4</option>

    </select><br>

    <button *type*="button" *onclick*="addCar()">Submit</button>

    <table *border*="1px">

        <tr>

            <th>City</th>

            <th>Maruti-K10</th>

            <th>Zen-Astelo</th>

            <th>Wagnor</th>

            <th>Maruti-SX4</th>

        </tr>

        <tr>

            <td>Delhi</td>

            <td *id*="Dmk">0</td>

            <td *id*="Dz">0</td>

            <td *id*="Dw">0</td>

            <td *id*="Dms">0</td>

        </tr>

        <tr>

            <td>Mumbai</td>

            <td *id*="Mmk">0</td>

            <td *id*="Mz">0</td>

            <td *id*="Mw">0</td>

            <td *id*="Mms">0</td>

        </tr>

        <tr>

            <td>Chennai</td>

            <td *id*="Cmk">0</td>

            <td *id*="Cz">0</td>

            <td *id*="Cw">0</td>

            <td *id*="Cms">0</td>

        </tr>

        <tr>

            <td>Kolkata</td>

            <td *id*="Kmk">0</td>

            <td *id*="Kz">0</td>

            <td *id*="Kw">0</td>

            <td *id*="Kms">0</td>

        </tr>

    </table>

    <div *id*="loc"></div>

    <pre>Name: Priyanshu Negi  Student Id:22011884  Sem: 6th  Sec: C1</pre>

    <script>

        function addCar(){

            var city= document.getElementById('city').value;

            var car= document.getElementById('car').value;

            var toadd=city+car;

            var count=*Number*(document.getElementById(toadd).innerHTML);

            count++;

            document.getElementById(toadd).innerHTML=count;

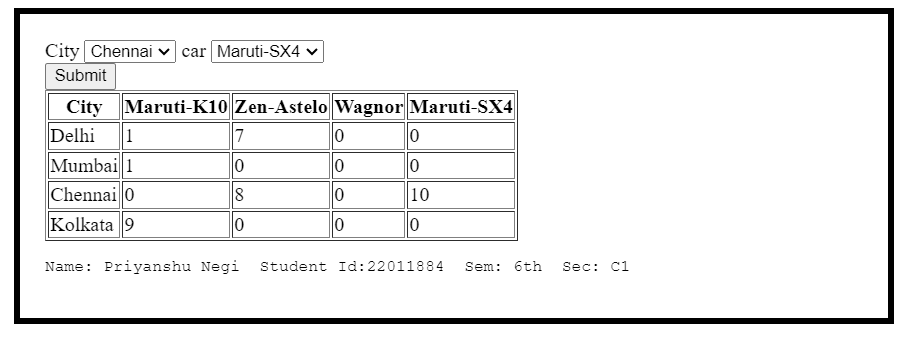
        }

    </script>

</body>

</html>

**Output:**

****