#### Program 1:

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

```
<!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>
 >
   <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>
   this is <sub >subscript text</sub><br
   this is <sup >superscript </sup>
 Name: Priyanshu Negi Std.ld: 22011884 Sem: 6th Sec: C1
</body>
</html>
```



## U http://127.0.0.1:3000/html/test.html

## this is bold

this is italic this is emphasize

strong tag

marked text

deketed text

inserted text

this is  ${}_{\hbox{subscript text}}$ 

this is superscript

### 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>
 * * *
****
* * * * * * *
 Name: Priyanshu Negi Std.ld: 22011884 Sem: 6th Sec: C1
</body>
</html>
```

### Output:-

#### Program 3:

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

#### List of Course-wise Subjects

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

```
<!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>
 Sr. No.
   Course
   Subject
   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
Virtual Basics
>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

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

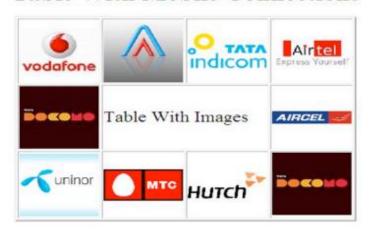
### List of course-wise Subjects

Su No	Course	Subject	Marks		Category		Practical/Theory
SI. 110.		Subject	Internal	External	Internal	External	1 Tactical/ Theory
1	MBA	Management Accounting	30	70	-	✓	Theory
		Information Technology	30	70	-	✓	T and P
1		Basics of Marketing	30	70	-	✓	Theory
		E-Commerce	50	-	✓	-	Theory
	MCM	Virtual Basics	30	70	-	✓	T and P
		Internet Technology	30	70	-	✓	T and P
2		Network Technology	30	70	-	✓	Theory
2		VB.Net	30	70	-	✓	T and P
		Linux	30	70	-	✓	T and P
		ISA	50	70	✓	-	Theory

Using table related tags align the images with hyperlinks.

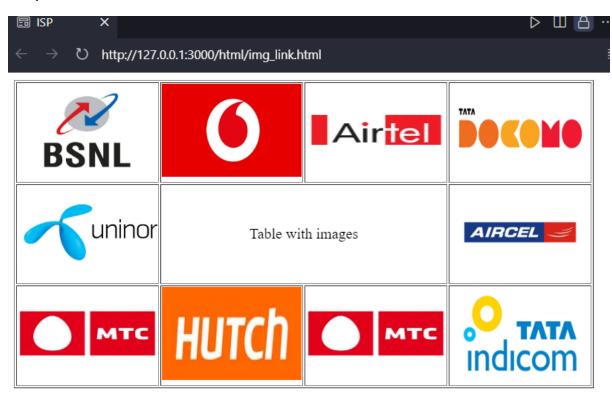


#### **Table With Mobile Connections**



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

```
<a href="https://www.myvi.in/"><img src="https://shorturl.at/vPKkS"
alt="vodafone"class="pict"></a>
    <a href="https://www.airtel.in/"><img src="https://shorturl.at/rK7OD"
alt="airtel" class="pict"></a>
    <a href="https://www.docomo.ne.jp/english/"><img
src="https://shorturl.at/3y01D" alt="docomo"class="pict"></a>
   <a href="https://www.telenor.com/"><img src="https://shorturl.at/XlGtE"
alt="telenor" class="pict"></a>
    <center>Table with images</center>
    <a href="https://www.aircel.com/"><img src="https://tinyurl.com/hy4cdy43"
alt="aircel" class="pict"></a>
   <a href="https://www.mtctelcom.com/"><img
src="https://tinyurl.com/1asnx91jsx" alt="mtc" class="pict"></a>
    <a href="https://hutch.lk/"><img src="https://tinyurl.com/gsxb88g"
alt="hutch" class="pict"></a>
    <a href="https://www.mtctelcom.com/"><img
src="https://tinyurl.com/cj0921hsc" alt="mtc" class="pict"></a>
    <a href="https://www.tatacommunications.com/solutions/move/mobile-
virtual-network-enabler-services/"><img src="https://tinyurl.com/qcmnq89y9c"
alt="tata" class="pict"></a>
   Name: Priyanshu Negi Std.ld: 22011884 Sem: 6th Sec: C1
</body>
</html>
```

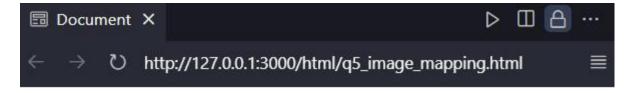


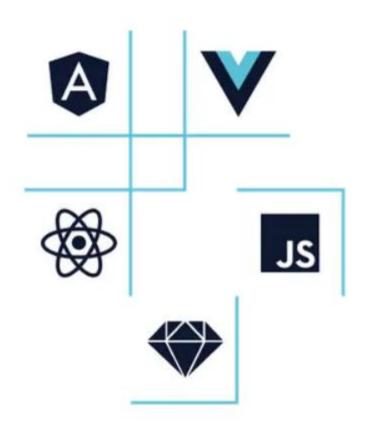
#### Program 5.

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

- I. To embed an image map in a web page
- II. To fix the hot spots
- III. Show all the related information when the hot spots are clicked.

```
<!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="">
Name: Priyanshu Negi Std.ld: 22011884 Sem: 6th Sec: C1
</body>
</html>
```





#### Program 6:

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

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

#### **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>
 Priyanshu Negi
  <iframe src="links.html" ></iframe>
    <iframe src="" name="iframe2"></iframe>
    <iframe src="iframe3.html"></iframe>
```

```
    <center>Contact Details: </center>

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

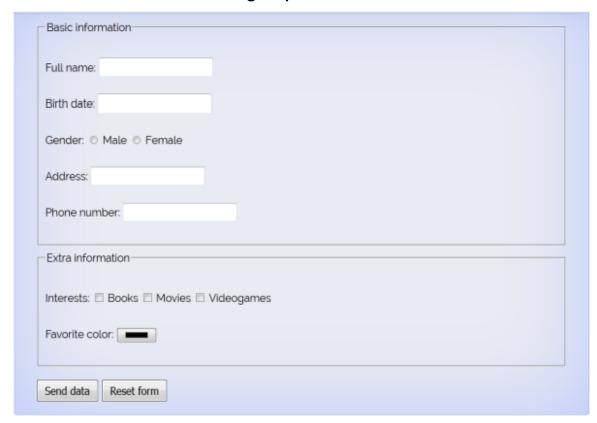
#### 2. Links code

```
<!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/>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:**



Program 7: Write a HTML code for the following snapshot.



```
<!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></r>
     <label for="color">Favorite color</label>
     <input type="color" name="" id="color"><br><br><
   </fieldset>
   <br>
   <button type="submit">Send data
   <button type="reset">Reset form</button>
 </form>
Name: Priyanshu Negi Std.ld: 22011884 Sem: 6th Sec: C1
</body>
</html>
```

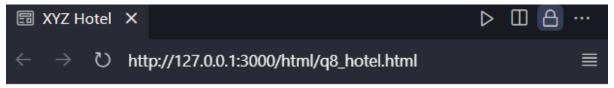
Form		×	•••
$\leftarrow$ $\rightarrow$	ರ	http://127.0.0.1:3000/html/q7_form.html	≡
Basic I	nfor	mation—	
Full Na	ıme:		
Birth D	ate:		
Gender	: 0	Male O Female	
Address	s:		
Phone 1	Num	ıber:	
Extra I	nfor	mation—————	$\underline{}$
Extra II	11101	mation	
Interest	ts: C	□ Books □ Movies □ Videogames	
Favorite	e co	lor	
Send data	a	Reset form	

#### 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).

```
<!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>
Name: Priyanshu Negi Std.ld: 22011884 Sem: 6th Sec: C1
</body>
</html>
```



# **Customer Profile**

Personal Information
Name:
Address:
Age:
Gender: O Male O Female
Room details
Room Type: O A/C O Non-A/C O Deluxe
Payment details—
Type of Payment: O Cash O Credit/Debit card O Coupons
Submit reset
Name: Priyanshu Negi Std.Id: 22011884 Sem: 6th Sec: C1

#### Program 10:

Design an HTML page to create the following list.

```
<!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>
   <strong>Python</strong>
    ul>
      Frameworks
        Django
         Flask
        Libraries
       ul>
         NumPy
         Pandas
         Matplotlib
       <strong>Java</strong>
    ul>
```

```
Core Concepts
     OOP
      Multithreading
      Exception Handling
     Frameworks
     Spring
      Hibernate
     <h2>2. <strong>Web Development</strong></h2>
  <strong>Frontend</strong>
   ul>
    HTML
    CSS
    JavaScript
     ul>
      React
      Vue.js
      Angular
     <strong>Backend</strong>
    Node.js
    PHP
    Ruby on Rails
   Name: Priyanshu Negi Std.ld: 22011884 Sem: 6th Sec: C1
</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.

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

```
<!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>
 >Name: Priyanshu Negi Student Id:22011884 Sem: 6th Sec: C1
 <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";
     }
```

Enter card number 5326475869382645

validate

master card

Name: Priyanshu Negi Student Id:22011884 Sem: 6th Sec: C1

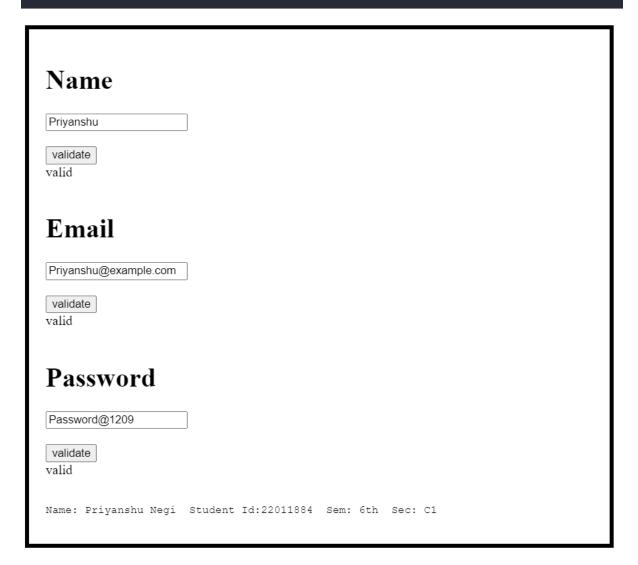
#### Program 21:

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

- a. Name
- b. E-Mail-id
- c. Password.

```
<!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>
 <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>
 >Name: Priyanshu Negi Student Id:22011884 Sem: 6th Sec: C1
 <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(){
```

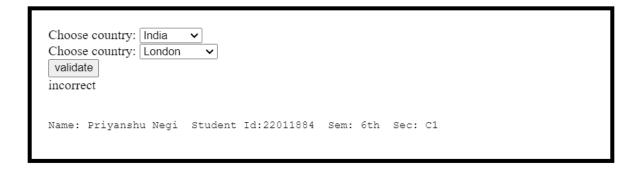
```
var email=document.getElementById("email").value;
     if(/^[a-zA-Z0-9]+@[a-zA-Z]+\.[a-zA-Z]{2,}$/.test(email)){}
       document.getElementById("email_out").innerHTML="valid";
     }
     else{
       document.getElementById("email_out").innerHTML="invalid";
     }
   }
   function validate_pass(){
     var pass=document.getElementById("pass").value;
     if(/[a-zA-Z0-9]+[@#$%&_]*/.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>
```

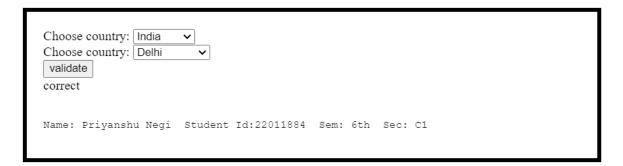


Store some country names and their capitals. Ask the user to select a country and its capital from two lists. If the match is correct, display "Correct answer"; otherwise, display an error message and tell the correct answer.

```
<!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 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 value="paris">Paris</option>
   <option value="canberra">Canberra</option>
 </select><br>
 <button type="button" onclick="validate()">validate/button>
 <div id="ans"></div><br>
 Name: Priyanshu Negi Student Id:22011884 Sem: 6th Sec: C1
 <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>
```

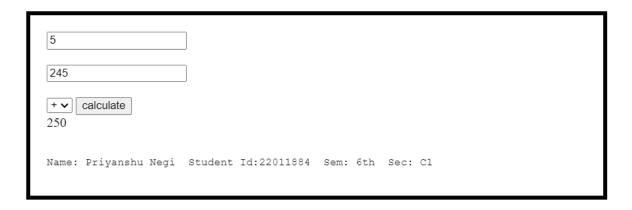




Design the simple Calculator

```
<!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>
 Name: Priyanshu Negi Student Id:22011884 Sem: 6th Sec: C1
 <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>
```



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>
 Name: Priyanshu Negi Student Id:22011884 Sem: 6th Sec: C1
 <script>
   function myfun(){
     var d = new Date();
     document.getElementById("loc").innerHTML = d;
   }
   setInterval(myfun,1000);
 </script>
</body>
</html>
```

#### **Output:**

```
Wed Mar 26 2025 21:02:41 GMT+0530 (India Standard Time)

Name: Priyanshu Negi Student Id:22011884 Sem: 6th Sec: C1
```

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.

```
<!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>
 Name: Priyanshu Negi Student Id:22011884 Sem: 6th Sec: C1
 <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>
```

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.

```
<!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>
 >Name: Priyanshu Negi Student Id:22011884 Sem: 6th Sec: C1
 <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>
```

Enter phone number 837275639	
area code 837 number 275639 validate	
Name: Priyanshu Negi Student Id:22011884	Sem: 6th Sec: C1

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

a. Parameter: A string

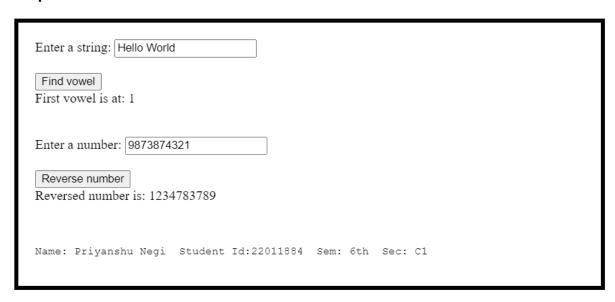
Output: The position in the string of the left-most vowel

b. Parameter: A number

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

```
<!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>
 Name: Priyanshu Negi Student Id:22011884 Sem: 6th Sec: C1
 <script>
   function find_first_vowel(){
     var str= document.getElementById("str").value;
     var vowels="aeiouAEIOU";
     for(var i=0;i<str.length;i++){</pre>
       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>
```



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.

```
<!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>
 Name: Priyanshu Negi Student Id:22011884 Sem: 6th Sec: C1
 <script>
   function inverse_case(){
     var str= document.getElementById("inp").value;
     var ans="":
     for(var i=0;i<str.length;i++){</pre>
       if(str[i]==str[i].toUpperCase()){
         ans+=str[i].toLowerCase();
       }
       else{
         ans+=str[i].toUpperCase();
       }
     }
     document.getElementById("ans").innerHTML=ans;
   }
```

```
</script> </body>
```

</html>

## Output

Enter a string Hello World

Change case
hELLO wORLD

Name: Priyanshu Negi Student Id:22011884 Sem: 6th Sec: C1

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:

	Maruti-K10	Zen-Astelo	Wagnor	Maruti-SX4
Delhi				
Mumbai				
Cheenai				
Kolkatta				

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

```
<!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
border</u>="1px">
City
 Maruti-K10
 Zen-Astelo
 Wagnor
 Maruti-SX4
Delhi
 0
 0
 0
 0
Mumbai
 0
 0
 0
 0
Chennai
 0
 0
 0
 0
Kolkata
 0
 0
 0
 0
```

```
<div id="loc"></div>
Name: Priyanshu Negi Student Id:22011884 Sem: 6th Sec: C1

<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>
```

