Course name: WEB DEVELOPMENT (Lab)

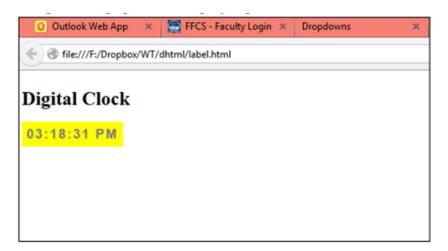
Slot: L43+L44

Name: yoga prasath. M

Reg.no: 20BCS0162

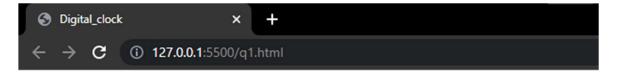
Lab cycle sheet-2

1. Design a web page which display digital clock as shown below.



```
<!DOCTYPE html>
<html lang="en">
   <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>Digital clock</title>
   <style>
       #clck{
            color:darkgray;
           background-color: yellow;
           width: 190px;
   </style>
<body onload="gettimer()">
   <h1>Digital Clock</h1>
   <h1 id="clck">hh</h1>
   <script>
       function gettimer(){
           var today = new Date();
           var hrs = today.getHours();
           var time = today.getHours() + ":"+today.getMinutes()+":"+today.getSeconds();
           var ampm = 'AM';
            if(hrs > 13)
```

```
{
    ampm = 'PM';
}
time = time +' '+ ampm;
document.getElementById('clck').innerHTML = time;
}
</script>
</body>
</html>
```



Digital Clock

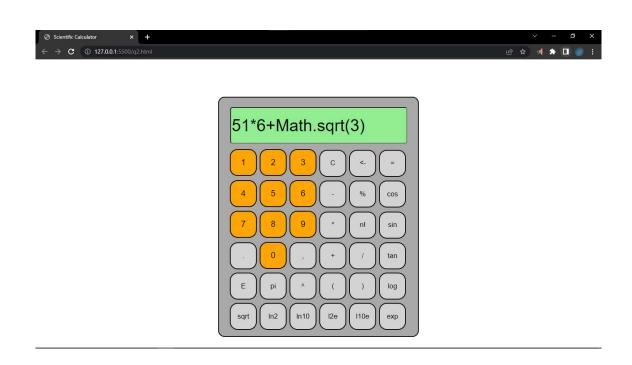
16:9:56 PM

2. Design a scientific calculator using JavaScript

```
<!DOCTYPE html>
   <title>
     Scientific Calculator
   </title>
  <style>
  #btn{
   background-color: orange;
   height: 65px;
   width: 65px;
   margin-top: 8px;
   margin-right: 3px;
   border-radius: 19px;
   font-size: 20px;
  #btnsym{
   background-color: lightgrey;
   height: 65px;
   width: 65px;
   margin-top: 8px;
   margin-right: 3px;
   border-radius: 19px;
```

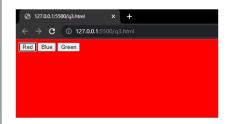
```
font-size: 17px;
#res{
  background-color: lightgreen;
  height: 82px;
  width: 419px;
  border-radius: 5px;
  font-size: 40px;
  margin-bottom: 5px;
  margin-top: 8px;
.box{
  background-color: darkgray;
  border-radius: 15px;
  border: 2px black solid;
  padding: 15px;
  margin-left: auto;
  margin-right: auto;
  max-width: 450px;
  max-height: 550px;
  </style>
  <script>
       function backspace(calc) {
           size = calc.display.value.length;
           calc.display.value = calc.display.value.substring(0, size-1);
       function calculate(calc) {
           if(calc.display.value.includes("!")) {
               size = calc.display.value.length;
               n = Number(calc.display.value.substring(0, size-1));
               f = 1;
               for(i = 2; i <= n; i++)
                   f = f*i;
               calc.display.value = f;
           else if(calc.display.value.includes("%")) {
               size = calc.display.value.length;
               n = Number(calc.display.value.substring(0, size-1));
               calc.display.value = n/100;
           else
               calc.display.value = eval(calc.display.value);
```

```
</script>
</head>
<body align="center" style="margin-top:90px;">
<div class="box">
    <form name="calc">
<input id="res" name="display" onkeypress="return event.charCode >= 48 && event.charCode
<= 57" type="text"><br>
<input id="btn" type="button" value="1" OnClick="calc.display.value+='1'">
<input id="btn" type="button" value="2" OnClick="calc.display.value+='2'">
<input id="btn" type="button" value="3" OnClick="calc.display.value+='3'">
<input id="btnsym" type="button" value="C" OnClick="calc.display.value=''">
<input id="btnsym" type="button" value="<-" OnClick="backspace(this.form)">
<input id="btnsym" type="button" value="=" OnClick="calculate(this.form)"><br>
<input id="btn" type="button" value="4" OnClick="calc.display.value+='4'">
<input id="btn" type="button" value="5" OnClick="calc.display.value+='5'">
<input id="btn" type="button" value="6" OnClick="calc.display.value+='6'">
<input id="btnsym" type="button" value="-" OnClick="calc.display.value+='-'">
<input id="btnsym" type="button" value="%" OnClick="calc.display.value+='%'">
input id="btnsym" type="button" value="cos" OnClick="calc.display.value='Math.cos('"><br>
<input id="btn" type="button" value="7" OnClick="calc.display.value+='7'">
<input id="btn" type="button" value="8" OnClick="calc.display.value+='8'">
<input id="btn" type="button" value="9" OnClick="calc.display.value+='9'">
<input id="btnsym" type="button" value="*" OnClick="calc.display.value+='*'">
<input id="btnsym" type="button" value="n!" OnClick="calc.display.value+='!'">
<input id="btnsym" type="button" value="sin"</pre>
OnClick="calc.display.value='Math.sin('"><br>
<input id="btnsym" type="button" value="." OnClick="calc.display.value+='.'">
<input id="btn" type="button" value="0" OnClick="calc.display.value+='0'">
<input id="btnsym" type="button" value="," OnClick="calc.display.value+=','">
<input id="btnsym" type="button" value="+" OnClick="calc.display.value+='+'">
<input id="btnsym" type="button" value="/" OnClick="calc.display.value+='/'">
input id="btnsym" type="button" value="tan" OnClick="calc.display.value='Math.tan('"><br>
<input id="btnsym" type="button" value="E" OnClick="calc.display.value+='Math.E'">
<input id="btnsym" type="button" value="pi" OnClick="calc.display.value+='Math.PI'">
<input id="btnsym" type="button" value="^" OnClick="calc.display.value+='Math.pow('">
<input id="btnsym" type="button" value="(" OnClick="calc.display.value+='('">
<input id="btnsym" type="button" value=")" OnClick="calc.display.value+=')'">
input id="btnsym" type="button" value="log" OnClick="calc.display.value='Math.log('"><br>
input id="btnsym" type="button" value="sqrt"OnClick="calc.display.value+='Math.sqrt('">
input id="btnsym" type="button" value="ln2"OnClick="calc.display.value+='Math.LN2'">
<input id="btnsym" type="button" value="ln10"OnClick="calc.display.value+='Math.Log10'">
input id="btnsym" type="button" value="l2e"OnClick="calc.display.value+='Math.LOG2E'">
<input id="btnsym" type="button" value="l10e"OnClick="calc.display.value+='Math.log10'">
<input id="btnsym" type="button" value="exp"OnClick="calc.display.value='Math.exp('">
</form>
</div>
</body>
/html>
```





3. Design a web page which contains three buttons with labelled as red, blue and green. On clicking the button the respective color should displayed as background color.



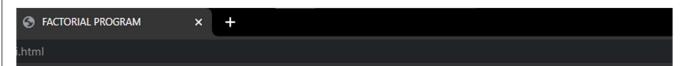




4. Implement the following using JavaScript: a. Find factorial of the given number. b. Find if a given number is an Armstrong number c. Find if a given number is Automorphic.

Factorial

```
f = 1;
num = document.getElementById("num").value;
for(i = 1; i <= num; i++)
{
    f = f * i;
}
i = i - 1;
document.getElementById("res").innerHTML = "The factorial of the number " + i + " is: " +
    f;
}
</script>
</body>
</html>
```



FACTORIAL PROGRAM

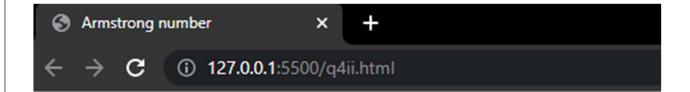
Enter a number: 23

The factorial of the number 23 is: 2.585201673888498e+22

Armstrong number

```
<!DOCTYPE html>
<html>
<head>
<title>Armstrong number</title>
<script>
function armstr()
{
  var arm=0,a,b,c,d,num;
  num=Number(document.getElementById("no_input").value);

temp=num;
while(temp>0)
{
  a=temp%10;
  temp=parseInt(temp/10); // convert float into Integer
  arm=arm+a*a*a;
}
if(arm==num)
{
  document.getElementById("res").innerHTML = num+" is a Armstrong number";
}
else
```



Armstrong number

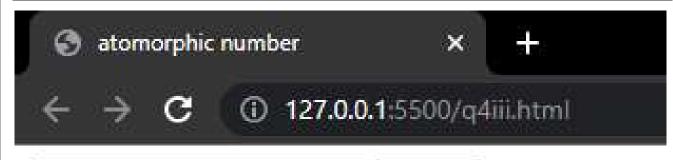
Enter any Number: 156 Check

156 is Not Armstrong number

Atomorphic number

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

<input type="text" name="a" id="first" placeholder="Enter a number"> 
<body>
<input type="text" name="a" id="first" placeholder="Enter a number"> 
<body>
<body>
<idiv id="num"></div>
<div id="num"></div>
</body>
</script type="text/javascript">
function automorphic()
```



Square of a number is: 25
5 is an automorphic number

5. Design a HTML page to generate an image slide show using Javascript. First input all the images(minimum of 5 images) you want to add to the slideshow. Add a button to start the slideshow. Repeatedly starting from the first to last, display each image for 5 seconds and then display the next image. Add two buttons to view the previous and next image.

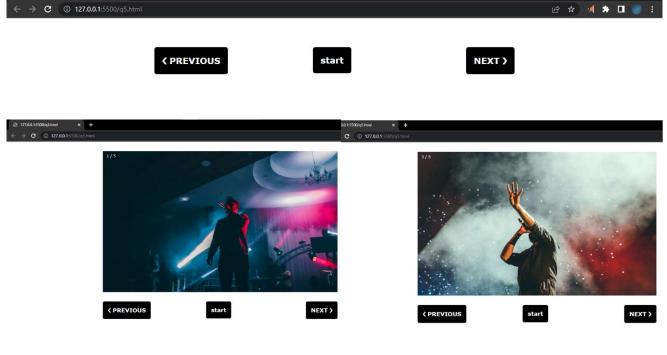
```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>

* {box-sizing: border-box}
```

```
body {font-family: Verdana, sans-serif; margin:0;}
.mySlides {display: none}
img {
    vertical-align: middle;
    max-width:750px;
   max-height:450px;
.slideshow-container {
  max-width:750px;
  position: relative;
  margin: auto;
  margin-top: 30px;
.prev, .next ,.start{
  cursor: pointer;
  position: absolute;
  width: auto;
  padding: 16px;
  color: white;
  background-color: black;
  font-weight: bold;
  font-size: 18px;
  user-select: none;
  margin-top: 30PX;
  border-radius: 5px;
.start{
margin-left: 330px;
.next {
  right: 0;
.numbertext {
  color: #f2f2f2;
  font-size: 12px;
  padding: 8px 12px;
  position: absolute;
  top: 0;
.active {
 background-color: #717171;
</style>
</head>
```

```
<body>
<div class="slideshow-container">
<div class="mySlides">
 <div class="numbertext">1 / 5</div>
 <img src="cover 11.jpg" style="width:100%">
</div>
<div class="mySlides">
 <div class="numbertext">2 / 5</div>
 <img src="cover 12.jpg" style="width:100%">
</div>
<div class="mySlides">
 <div class="numbertext">3 / 5</div>
 <img src="cover 13.jpg" style="width:100%">
</div>
<div class="mySlides">
   <div class="numbertext">4 / 5</div>
   <img src="cover 14.jpg" style="width:100%">
</div>
<div class="mySlides">
   <div class="numbertext">5 / 5</div>
   <img src="cover 15.jpg" style="width:100%">
</div>
<a class="prev" onclick="index(-1)">  PREVIOUS</a>
<a class="start" onclick="index(2);">start</a>
<a class="next" onclick="index(1)">NEXT ></a>
</div>
<br>
<script>
 let slideIndex = 0;
 function index(n) {
   if(n==1||n==-1){slideIndex += n;showSlides(slideIndex);}
   else{
       start();
  }
 function showSlides(n) {
    let i:
    let slides = document.getElementsByClassName("mySlides");
```

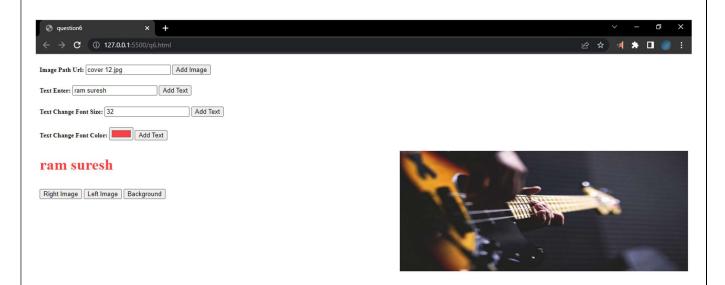
```
if (n > slides.length) {slideIndex = 1}
   if (n < 1) {slideIndex = slides.length}</pre>
   for (i = 0; i < slides.length; i++) {</pre>
      slides[i].style.display = "none";
   slides[slideIndex-1].style.display = "block";
 }
 function start() {
 let i;
 let slides = document.getElementsByClassName("mySlides");
 for (i = 0; i < slides.length; i++) {</pre>
   slides[i].style.display = "none";
 slideIndex++;
 if (slideIndex > slides.length) {slideIndex = 1; }
 slides[slideIndex-1].style.display = "block";
 setTimeout(start, 5000);
  // Change image every 2 seconds
 </script>
</html>
3 127.0.0.1:5500/q5.html
               × +
← → C ① 127.0.0.1:5500/q5.html
                                                                                년 ☆ 세 * 🗆 🌘
```



- 6. Develop an Online Greetings Designer using Javascript and CSS. Add options to
- i) change the image
- ii) Position the image (left, background, right)
- iii) Edit text
- iv) Change font size
- v) Change font color

```
<!Doctype html>
<title>question6</title>
<script>
function changeImagePosition(position){
if(position=="right"){
var gtimage=document.getElementById('gtimage');
gtimage.style.float="right";
}else if(position=="left"){
var gtimage=document.getElementById('gtimage');
gtimage.style.float="left";
}else if(position=="bg"){
var gtimage=document.getElementById('gtimage');
gtimage.style.display="none";
imgpaths=document.getElementById('imgpaths').value;
document.getElementById('bodybg').style.backgroundImage = "url('"+imgpaths+"')";
function addText(){
var textenter=document.getElementById('textenter').value;
var textval=document.getElementById('textval');
textval.innerHTML=textenter;
function addImage(){
var imgpaths=document.getElementById('imgpaths').value;
var gtimage=document.getElementById('gtimage');
gtimage.setAttribute("src",imgpaths);
function Textcolor(){
var textcolor=document.getElementById('textcolor').value;
var textval=document.getElementById('textval');
textval.style.color=textcolor;
function Textsize(){
var textsize=document.getElementById('textsize').value;
var textval=document.getElementById('textval');
textval.style.fontSize=textsize+"px";
</script>
<body id="bodybg">
```

```
<div>
<h5>Image Path Url: <input type="text" id="imgpaths"> <button</pre>
type="text" onclick="addImage()">Add Image</button></h5>
<h5>Text Enter: <input type="text" id="textenter"> <button</pre>
type="text" onclick="addText()">Add Text</button></h5>
<h5>Text Change Font Size: <input type="number" id="textsize">
<button type="text" onclick="Textsize()">Add Text</button></h5>
<h5>Text Change Font Color: <input type="color" id="textcolor">
<button type="text" onclick="Textcolor()">Add Text</button></h5>
</div>
<img src id="gtimage" height=250 width=600>
</div>
<h3 id="textval" style="color:black;">This is Text.</h3>
<button type="button" onclick="changeImagePosition('right')">Right
Image</button>
<button type="button" onclick="changeImagePosition('left')">Left
Image</button>
<button type="button"</pre>
onclick="changeImagePosition('bg')">Background</button>
</body>
```

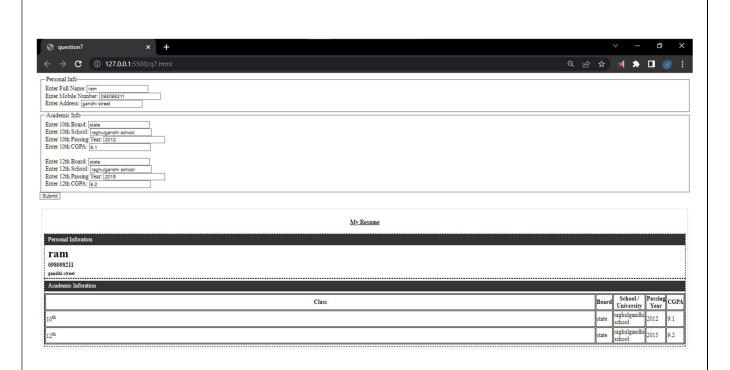


7.Design an online Resume Generator using HTML and Javascript. Design a HTML page where the user can input his personal, academic and experience details. Using Javascript generate the formatted resume.

```
<!Doctype html>
<html>
<head>
```

```
<title>question7</title>
<script>
function createResume(){
var fullnamme= document.getElementById('name').value;
var mobnumber= document.getElementById('number').value;
var address= document.getElementById('address').value;
document.getElementById('fullname').innerHTML=fullnamme;
document.getElementById('mobnumber').innerHTML=mobnumber;
document.getElementById('fulladdress').innerHTML=address;
var b10= document.getElementById('10b').value;
var s10= document.getElementById('10s').value;
var p10= document.getElementById('10p').value;
var c10= document.getElementById('10c').value;
document.getElementById('10thboard').innerHTML=b10;
document.getElementById('10school').innerHTML=s10;
document.getElementById('10year').innerHTML=p10;
document.getElementById('10cgpa').innerHTML=c10;
var b12= document.getElementById('12b').value;
var s12= document.getElementById('12s').value;
var p12= document.getElementById('12p').value;
var c12= document.getElementById('12c').value;
document.getElementById('12thboard').innerHTML=b12;
document.getElementById('12thschool').innerHTML=s12;
document.getElementById('12thyear').innerHTML=p12;
document.getElementById('12thcgpa').innerHTML=c12;
</script>
<style>
table,th,td{
border:1px solid black;
width:100%;
</style>
</head>
<body>
<fieldset>
<legend>Personal Info</legend>
Enter Full Name: <input type="text" id="name"><br>
Enter Mobile Number: <input type="text" id="number"><br>
Enter Address: <input type="text" id="address"><br>
</fieldset>
<fieldset>
<legend>Academic Info</legend>
Enter 10th Board: <input type="text" id="10b"><br>
Enter 10th School: <input type="text" id="10s"><br>
Enter 10th Passing Year: <input type="text" id="10p"><br>
Enter 10th CGPA: <input type="text" id="10c"><br><br>
Enter 12th Board: <input type="text" id="12b"><br>
Enter 12th School: <input type="text" id="12s"><br>
Enter 12th Passing Year: <input type="text" id="12p"><br>
Enter 12th CGPA: <input type="text" id="12c"><br>
</fieldset>
<button type="button"</pre>
onclick="createResume()">Submit</button><br><br>
```

```
<div id="resume" style="border:2px solid</pre>
#ddd;margin:5px;padding:5px">
<h4 style="text-align:center;text-decoration:underline">My
Resume</h4>
<div style="border:1px dashed black">
<div style="background:#333;color:white;padding:5px</pre>
10px">Personal Inforation</div>
<h1 style="margin:5px 0px 5px 10px"
id="fullname"></h1>
<h4 style="margin:5px 0px 5px 10px"
id="mobnumber"></h4>
<h5 style="margin:5px 0px 5px 10px"
id="fulladdress"></h5>
</div>
<div style="border:1px dashed black">
<div style="background:#333;color:white;margin:5px</pre>
0px ;padding:5px 10px">Academic Inforation</div>
Class
Board
School / University
Passing Year
CGPA
10<sup>th</sup>
12<sup>th</sup>
<h1 style="margin:5px 0px 5px 10px"
id="fullname"></h1>
<h4 style="margin:5px 0px 5px 10px"
id="mobnumber"></h4>
<h5 style="margin:5px 0px 5px 10px"
id="fulladdress"></h5>
</div>
</div>
</body>
```

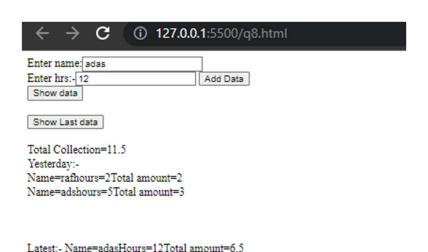


8. A parking garage charges a \$2.00 minimum fee to park for up to three hours. The garage charges an additional \$0.50 per hour for each hour or part thereof in excess of three hours. The maximum charge for any given 24-hour period is \$10.00. Assume that no car parks for longer than 24 hours at a time. Write a script that calculates and displays the parking charges for each customer who parked a car in this garage yesterday. You should input from the user the hours parked for each customer. The program should display the charge for the current customer and should calculate and display the running total of yesterday's receipts. The program should use the function calculate-Charges to determine the charge for each customer. Use a text input field to obtain the input from the user.

```
<!DOCTYPE html>
<html>
<title>question 8</title>
<div class="data">
Enter name:<input type="text" id="nam"><br>
Enter hrs:-<input type="text" id="hrs">
<button onclick="enter_data()">Add Data</button>
</div>
<button onclick="show_data()">Show data</button><br><br>
<button onclick="show latest data()">Show Last data</button><br><br>
<div class="answer">
Total Collection=<span id="total"></span>
</div>
Yesterday:-
<div class="all Data">
<span id="0"></span><br>
```

```
<span id="1"></span><br>
<span id="2"></span><br>
<span id="3"></span><br>
<span id="4"></span><br>
</div>
Latest:-
<span id="lat"> </span>
<script>
var arr=[];
var hrs=[];
var total_amt=[];
var count=0;
function enter_data() {
var hrs place=parseFloat(document.getElementById('hrs').value);
var name=document.getElementById('nam').value;
arr.push(name);
hrs.push(hrs_place);
if(hrs_place <= 3)</pre>
total_amnt=parseFloat("2");
total_amt.push(total_amnt);
else if(hrs place>3 && hrs place <24){
total_amnt=2+(hrs_place-3)*0.50;
if(total_amnt>10){
total_amnt=10;
total_amt.push(total_amnt);
else{
total_amt.push(total_amnt);
else{
total_amt.push(parseFloat("10"));
function show data(){
var sum=0;
for(var j=0;j<total_amt.length;j++){</pre>
sum=sum+total_amt[j];
document.getElementById('total').innerHTML=sum;
for(var i=0;i<arr.length-1;i++){</pre>
var data="Name="+arr[i]+"hours="+hrs[i]+"Total amount="+total_amt[i];
var c=i.toString();
document.getElementById(c).innerHTML = data;
document.getElementById()
function show_latest_data(){
var n=arr.length;
var data="Name="+arr[n-1]+"Hours="+hrs[n-1]+"Total amount="+total_amt[n-1];
document.getElementById('lat').innerHTML= data;
```





9. BSNL has designed a grievance registration form in HTML with name of customer, address, telecom circle, email and grievance nature in a list box containing huge bills for limited mobile usage, roaming charges and frequent service disruption and a submit button. ii) Write a Javascript DOM event to be enabled when the user submits the form and display the complaint details in a tabular format. iii) If no grievance is selected, then invoke another DOM event to display "No grievances".

```
function test(x)
 var npat=/^[A-Za-z]+$/; if (x.match(npat))
 document.getElementById("outtab").rows[1].cells[1].innerHTML=x;
return true;
alert("Name must be filled characters");
return false;
 function test1(a)
 var apat=/\w/;
 if(a.match(apat))
 document.getElementById("outtab").rows[2].cells[1].innerHTML=a;
 return true;
alert("Address must be filled");
 return false;
 function test2(tc)
if(tc.value)
document.getElementById("outtab").rows[3].cells[1].innerHTML=tc. value;
return true;
alert("Select Telecom Circle");
return false;
function test3()
 var epat=/^[a-zA-Z0-9]+@[a-zA-Z]+.[a-zA-Z]+$/;
 if(y.match(epat)) {
 document.getElementById("outtab").rows[4].cells[1].innerHTML=y;
 return true;
alert("Enter email id"); return false;
 function test4(gn)
if(gn.value)
document.getElementById("outtab").rows[5].cells[1].innerHTML=gn. value; return true;
} document.getElementById("outtab").rows[5].cells[1].innerHTML="<h2>No
grievances</h2>"; return true;
 </script>
 </head>
<style>
```

```
width:200px; height:25px;
#t1
width:200px; height:35px;
#t2
width:120px; height:25px;
input[type="text"]
border-radius:5px;
select
border-radius:5px;
#t3
width:120px; height:25px;
#table1
border-radius:6px; color:rgb(22, 16, 16);
background-color:#19f1f8;
position:absolute; top:32%;
left:5%;
opacity:0.8;
#outtab
border-radius:6px;
color:rgb(0,0,0);
background-color:#de6de9;
position:absolute;
top:31%;
left:45%;
opacity:0.8;
height: 41%;
</style>
<form name="myform" method="post" onsubmit="return ex5validation()">
 <h2><b>Registration forms</b></h2> 
<b>Name of the Customer</b><input type="text" id="t"
name="cusname"></br>
<b>Address</b><input type="text" id="t"name="address"></br>
```

```
<option value="" selected>-Select-</option>
<option value="Metro">Metro</option>
<option value="A">A</option>
<option value="B">B</option> <option value="C">C</option>
</select></br>
<option value="" selected>-Select-</option>
<option value="Bills for Limited Mobile Usage">Bills for Limited Mobile Usage
<option value="Roaming Charges">Roaming Charges</option> <option value="Frequent Service"</pre>
Disruption">Frequent Service Disruption</option></select></br></pr>
</form> <br> <br>>
<h2>FORM OUTPUT</h2>
Name of the customer
Address
Telecom
CircleEmail
Grievance Nature
<button type="submit"</pre>
onclick="ex5validation()">Display</button>
</body>
```

4	_	×		127.0.0.1	-5500	/aQ htm
~	\neg	_	w	127.0.0.1	:>>00	rag.num



FORM OUTPUT					
Name of the customer	ram				
Address	dsasda				
Telecom Circle	A				
Email	sadas@gmail.com				
Grievance Nature	Bills for Limited Mobile Usage				
	Display				