

Experiment 16:

Aim : To make 12Hour Clock using javascript.

Source Code:

```
<!DOCTYPE html>

<html lang="en" dir="ltr">

  <head>

    <meta charset="utf-8">

    <script src="js/clock.js" charset="utf-8"></script>

    <title>Clock</title>

  </head>

  <body onLoad="clock();">

    <form name="timeClock">

      <input type="button" name="digits">

    </form>

  </body>

</html>
```

JS File:

```
function clock(){

  var time = new Date();

  var hr = time.getHours();

  var min = time.getMinutes();

  var sec = time.getSeconds();

  var a = "PM";

  if(hr < 12){a = "AM";}

  if(hr > 12){hr = hr - 12;}

  if(hr < 10){hr = " "+hr;}

  if(min < 10){min = "0"+min;}

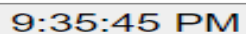
  if(sec < 10){sec = "0"+sec;}

  document.timeClock.digits.value = hr + ":" + min + ":" + sec + " " + a;

  setTimeout("clock()",1000);}


```

OUTPUT:



Experiment 17:

Aim : To write a program to that wishes according to time and displays the current day and date using javascript.

Source Code:

```
<!DOCTYPE html>

<html lang="en" dir="ltr">

  <head>

    <meta charset="utf-8">

    <script src="js/datetimewish.js" charset="utf-8"></script>

  </head>

  <body>

  </body>

</html>
```

Js File:

```
var now = new Date();
var year = now.getFullYear();
var month = now.getMonth();
var date = now.getDate();
var lstwrđ;
if(date < 10){var lastDigit = date;}
else{var lastDigit = date % 10;}
if(lastDigit == 1) {lstwrđ = "st";}
else if(lastDigit == 2) {lstwrđ = "nd";}
else if(lastDigit == 3) {lstwrđ = "rd";}
else {lstwrđ = "th"};
var Months = new Array("January","February","March","April","May","June","July",
  "August","September","October","November","December");
var fullDate = date + lstwrđ;
var totalDate;
totalDate = Months[month]+" "+fullDate+" "+year;
document.write("<h1>"+totalDate);
```

```
var hr = now.getHours();  
  
if(hr < 12){var text = "Morning";}  
  
else if(hr < 17){text = "Afternoon";}  
  
else if(hr < 20){text = "Evening";}  
  
else {text = "Night";}  
  
document.write("<br>"+"Good"+" "+text);
```

Output:

October 7th 2020
Good Night

Experiment 18:

Aim : To write a program to display background color as the color button is clicked using javascript.

Source Code:

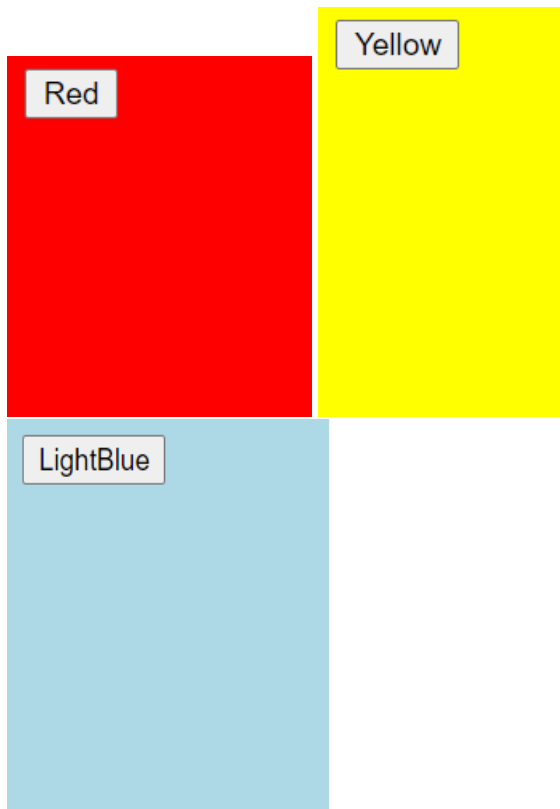
```
<!DOCTYPE html>  
  
<html lang="en" dir="ltr">  
  
<head>  
  
<meta charset="utf-8">  
  
<title></title>  
  
<script src="evnt2.js" charset="utf-8"></script>  
  
</head>  
  
<body bgcolor="Red">  
  
<input type="button" name="button" id="btn" value="Red" onClick="change();" ondblclick="changeTwo();">  
  
</body>  
  
</html>
```

Js File:

```
function changeColor(color) {  
  
    document.body.style.background = color;  
  
    document.getElementById("btn").value= color;
```

```
    }  
function change() {  
    changeColor('Yellow');  
}  
function changeTwo() {  
    changeColor('LightBlue');  
}
```

Ouput:



Experiment 19:

Aim : To write a program to use event handler to change image on hover using javascript.

Source Code:

```
<!DOCTYPE html>  
<html lang="en" dir="ltr">  
  <head>  
    <meta charset="utf-8">  
    <script src="event1.js" charset="utf-8"></script>  
    <title></title>  
  </head>  
  <body>
```

```

</body>
</html>
```

Js File:

```
function call() {
    document.getElementById("img").src = "images/2.jpg";
}
function unCall() {
    document.getElementById("img").src = "images/1.jpg";
}
```

Ouput:



Experiment 20:

Aim : To write a program to enter a name through input box and concatenate with other word in a new window using javascript.

Source Code:

```
<!DOCTYPE html>
```

```

<html lang="en" dir="ltr">

<head>

<meta charset="utf-8">

<script src="a.js" charset="utf-8"></script>

<title>form</title>

</head>

<body onUnload="closeWindow();">

  <form name="setup">

    <input type="text" name="txt" placeholder="Enter Name" value="">

    <input type="button" value="New" onClick="openWindow();">

  </form>

</body>

</html>

```

Js File:

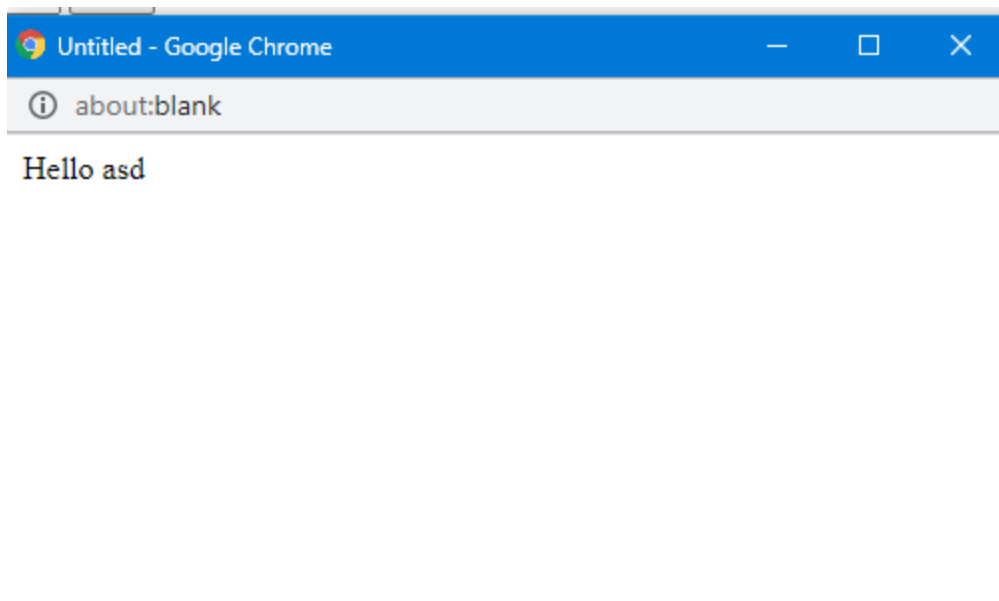
```

function openWindow(){
  lol = open("",'ht', 'height=500,width=500,status=1,scrollbars=1,screenX=100,screenY=200,top=100,left=150');
  lol.document.write('<html><body>Hello '+document.setup.txt.value+'</body></html>');
}

function closeWindow(){
  close();
}

```

OUTPUT:



Experiment 21:

Aim : To write a program to use (this) attribute using javascript.

Source Code:

```
<!DOCTYPE html>

<html lang="en" dir="ltr">

  <head>

    <meta charset="utf-8">

    <script src="index.js" charset="utf-8"></script>

    <title>Hello</title>

  </head>

  <body>

  </body>

</html>
```

JS FILE:

```
function student(name, dob, sem, residence) {

  this.Name = name;

  this.Dob = dob;

  this.sem = sem;

  this.Residence = residence;

  this.FullDetails = this.Name+"<br>" + this.Dob+"<br>" + this.sem+"<br>" + this.Residence; }

var s1 = new student("Aniket", "22/02/2000", "5sem", "Rajsamand");

function branch(name, batch, student){

  this.name = name;

  this.batch = batch;

  this.student = student;

  this.FullName1 = "<font color='blue'>Student: " + student.FullDetails + "<br>" + "<font color='red'>Branch: " + this.name + "<br>" + this.batch;

  this.display = display; }

function display(){

  document.write("<center><h1>" + this.FullName1 + "</h1>");}

var b1 = new branch("cse", "2018-2022", s1);

b1.display();
```

OUTPUT:

Student: Aniket

22/02/2000

5sem

Rajsamand

Branch: cse

2018-2022

Experiment 22:

Aim : To write a program to enlarge an image on hover using javascript.

Source Code:

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
  <head>
    <meta charset="utf-8">
    <title>Image hover</title>
    <script src="js/imagejs.js" charset="utf-8"></script>
  </head>
  <body>
    
  </body>
</html>
```

Js File:

```
function large() {
  document.getElementById("new").style.width = 900;
  document.getElementById("new").style.height = 600;
}
function small() {
  document.getElementById("new").style.width = 600;
  document.getElementById("new").style.height = 300;
}
```

OUPUT:



Experiment 23:

Aim : To write a program to use the video tag in Html5.

Source Code:

```
<!DOCTYPE html>

<html lang="en" dir="ltr">

<head>

  <meta charset="utf-8">

  <title>filmy Webpage</title>

  <link rel="stylesheet" href="css/filmy.css">

  <script type="text/javascript">

function startVideo(clicked_id) {

  var x = clicked_id;

  var video = document.getElementById('loader');

  var source = document.createElement('source');

  if(x == 1){

    source.setAttribute('src', 'F:/films/l,-R0b0t-2004-1080p-hdp0pc0rns.mp4');

    video.appendChild(source);

    video.play();}

  else if (x == 2){

    source.setAttribute('src', 'F:/films/Bolt-2008-1080p.mp4');

    video.appendChild(source);

    video.play();}

  else {

    source.setAttribute('src', 'F:/films/Interstellar-2014-1080p-.mp4');

    video.appendChild(source);

    video.play();} }

</script>

</head>

<body>
```

```
<button type="button" id="1" onclick="startVideo(this.id);" ondblclick="location.reload();">I-robot</button>

<button type="button" id="2" onclick="startVideo(this.id)" ondblclick="location.reload();">Bolt</button>

<button type="button" id="3" onclick="startVideo(this.id)" ondblclick="location.reload();">Intestellar</button>

<div class="player"> <video controls id="loader"></video></div>

</body>

</html>
```

Css File:

```
*{

padding: 0;

margin: 0;

box-sizing: border-box;

}

body{

margin: 10px;

background: grey;

}

button{

background: none;

border-radius: 10px;

padding: 5px;

}

button:hover{

background: black;

color: white;

}

.player video{

width: 100%;

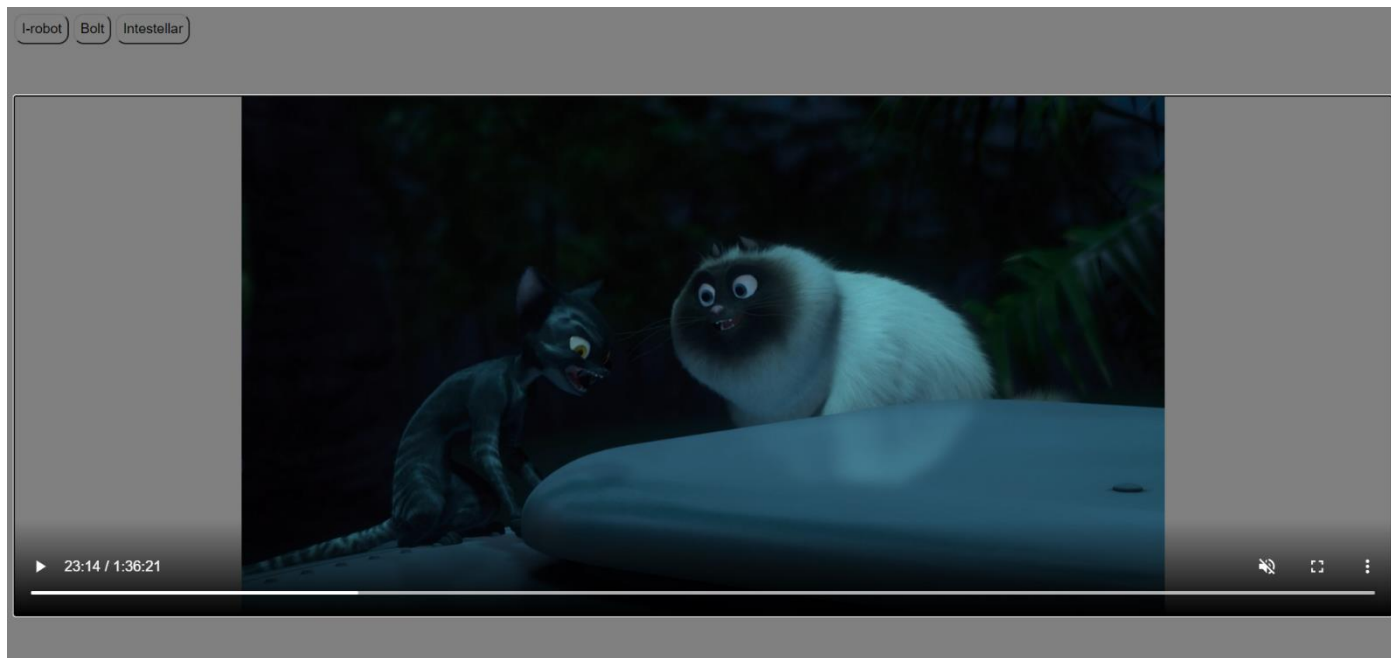
height: 500px;

margin-top: 50px;

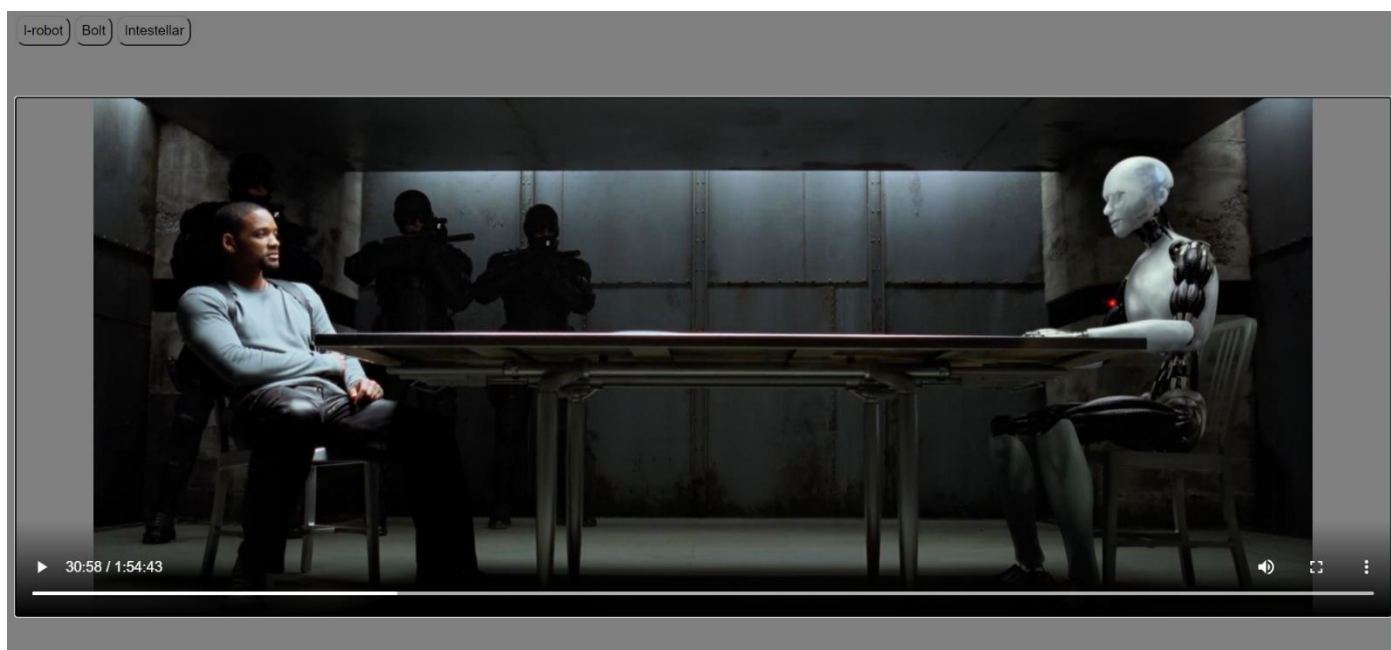
}
```

OUTPUT :

Onclick Bolt Button:



Onclick I-Robot Button:



Experiment 24:

Aim : To write a program to use the video tag in Html5.

Source Code:

```
<!DOCTYPE html>

<html lang="en" dir="ltr">

<head>
```

```
<meta charset="utf-8">

<title>songs Webpage</title>

<link rel="stylesheet" href="css/filmy.css">

<script type="text/javascript">

function startVideo(clicked_id) {

    var x = clicked_id;

    var audio = document.getElementById('loader');

    var source = document.createElement('source');

    if(x == 1)

    {

        source.setAttribute('src', 'music/Heer Ranjha - Bhuvan Bam _ Official Music Video .mp3');

        audio.appendChild(source);

        audio.play();

    }

    else if (x == 2)

    {

        source.setAttribute('src', 'music/Kina - get you the moon (Lyrics) ft. Snow.mp3');

        audio.appendChild(source);

        audio.play();

    }

    else {

        source.setAttribute('src', 'music/YALGAAR - CARRYMINATI X Wily Frenzy.mp3');

        audio.appendChild(source);

        audio.play();

    }

}

</script>

</head>

<body>

<button type="button" id="1" onclick="startVideo(this.id);" ondblclick="location.reload();">Heer Ranjhaa</button>

<button type="button" id="2" onclick="startVideo(this.id)" ondblclick="location.reload();">You Get The Moon</button>

<button type="button" id="3" onclick="startVideo(this.id)" ondblclick="location.reload();">Yalgaar</button>

<br><br>

<div class="player">

    <audio controls id="loader">

    </audio>

</div>
```

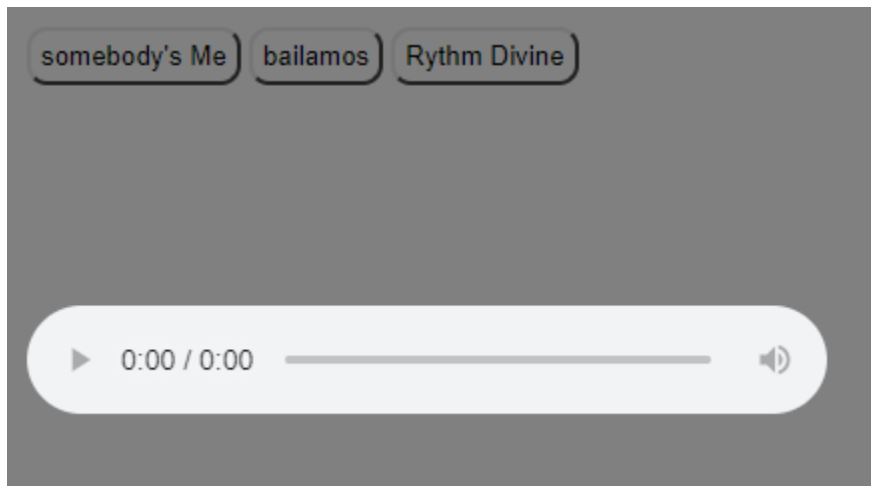
```
</body>
</html>
```

Css File:

```
*{
padding: 0;
margin: 0;
box-sizing: border-box;
}
body{
margin: 10px;
background: grey;
}
button{
background: none;
border-radius: 10px;
padding: 5px;
}
button:hover{
background: black;
color: white;
}
.player audio{
width: 100%;
height: 500px;
margin-top: 50px;
}
```

OUTPUT

Onclick Somebody's ME:



Experiment 25:

Aim : To write a program to make a mini-calci using Output tag in html5.

Source Code:

```
<!DOCTYPE html>

<html lang="en" dir="ltr"

<head>

  <meta charset="utf-8">

  <title></title>

</head>

<body>

  <form name="calculator">

    <input type="text" name="display1" >

    <input type="text" name="display2" > =

    <output name="result"></output>

    <br> <br>

    <button type="button"

      onclick="result.value = parseInt(display1.value) + parseInt(display2.value)">+</button>

    <button type="button"

      onclick="result.value = parseInt(display1.value) - parseInt(display2.value)">-</button>

    <button type="button"

      onclick="result.value = parseInt(display1.value) * parseInt(display2.value)">*</button>

    <button type="button"

      onclick="result.value = parseInt(display1.value) / parseInt(display2.value)">/</button>

  </form>

</body>
```

</html>

OUTPUT:

= 30

Experiment 26:

Aim : To write a program to use datalist tag in html5.

Source Code:

```
<!DOCTYPE html>

<html>

  <head>

    <title>Datalist</title>

  </head>

  <body>

    <div class="box">

      <div class="container-fluid">

        <div class="first">

          <form><br><br><br>

          <label for="browser">State:</label>

          <input list="state" id="stateName" oninput="showCity();">

          <datalist id="state">

            <option value="Rajasthan">

            <option value="punjab">

            <option value="Madhya pradesh">

          </datalist>

        </form>

      </div><br>

      <div id="container" class="first">

        <form>

          <label for="browser">City:</label>

          <input list="city" id="cityName">

          <datalist id="city">

          </datalist>

        </form>

      </div>

    </div>
```

```

</div>

</div>

<script>

function showCity(){

    var str="";

    var Rajasthan = ['udaipur','rajsamand','jaipur','jhodpur'];

    var punjab = ['chandigarh','ludhiana','amritsar'];

    var mp = ['neemuch','indore','bhopal','mysore'];

    var a = document.getElementById('stateName').value;

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

    if( a=="Rajasthan"){

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

            str += '<option value="'+Rajasthan[i]+'"/>'; // Storing options in variable } }

            else if(a=="punjab"){ for (var i=0; i < punjab.length;++i){

                str += '<option value="'+punjab[i]+'"/>'; // Storing options in variable

            } }

            else if(a=="Madhya pradesh"){

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

                    str += '<option value="'+mp[i]+'"/>'; // Storing options in variable}}

                b.innerHTML = str;

                document.getElementById('container').style.display="block";}

    }

}

</script>

</body></html>

```

OUTPUT :

State:

City:

Experiment 27:

Aim : To write a program to validate username,e-mail id and phone number in form using regular expressions in javascript with an alert box for invalid entry.

Source Code:


```

<!DOCTYPE html>

<html>

<head>

    <title>Form Validation</title>

    <style type="text/css">

        h1{text-align:center;}

        form{

            background-color: orange;

            width:300px;

            height:300px;

            display:block;

            margin-top:8%;

            margin-left:30%;

            padding-top: 50px;

            padding:100px;

            font-size: 20px;}

        input{

            outline: 0;

            padding: 10px;

            display:block;

            font-size:20px;

            background-color: white;}

    </style>

    <script type="text/javascript">

        function validate(){

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

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

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

            var a = new RegExp("^[A-Z|a-z|][A-Z|a-z|0-9]){2,10}");

            var b = new RegExp("^9|8|7|6|([0-9]){9}");

            var c = new RegExp("^[A-Z|a-z|0-9|_|_|%|+|-|]+@[A-Z|a-z|0-9|_|_|+\\.[a-z]{2,}$");

            var nameResult = a.test(name);

            var phoneResult = b.test(number);

            var emailResult = c.test(email);

            if(nameResult == false){

                alert('Please enter a valid Username');}

            if(phoneResult == false){

                alert('Please enter a valid phone number');}
        }
    </script>

```

```
        if(emailResult == false){
            alert('Please enter a valid email');}}
    </script>
</head>
<body>
<form action="" onsubmit="validate()">
    <h1><b>Login </b></h1>
    <input type="text" id="name" placeholder="Username" /><br>
    <input type="text" id="number" placeholder="Phone Number" /> <br>
    <input type="text" id="email" placeholder="Email" /><br>
    <input type="submit" />
</form>
</body>
</html>
```

OUTPUT:



Login

Experiment 28:

Aim : To write a program to validate Ip Address using Regular expression.

Source Code:

```
<!DOCTYPE html>

<html lang="en" dir="ltr">

<head>

<meta charset="utf-8">

<title></title>

</head>

<script type="text/javascript">

function validate(){

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

    var a = new RegExp("^(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)$");

    var Result = a.test(address);

    if (Result == true) {

        alert('entered a correct ip address');}

    else {alert('entered a incorrect ip address');}

}

</script>

<body>

<form onsubmit="validate()">

<h1>Ip address</h1>

<input type="text" id="address" value="" placeholder="ip"><br>

<input type="submit">

</form>

</body></html>
```

OUTPUT:

Ip address

localhost:5500 says

entered a correct ip address

