

3) JS Form Validation

```
<!DOCTYPE html>
<html>
  <head>
    <script src="formnew3.js">    </script>
  </head>
  <body style="position: relative;
  bottom:-100px ;
  background-image:url('formimg.jpg');
  background-repeat: no-repeat;
  background-size: 100%;">

  <center>
    <h1>FROM VALIDATION</h1>
    <form name="myform" method="post" action="" onsubmit="return validateform()">
      Name: <input type="text" name="name" /><br />
      <br />
      Email: <input type="email" name="email" minlength="10"/><br />
      <br />
      Password: <input type="password" name="password"><br/> <br>
      Location: <input type="text" name="location" placeholder="enter location here"><br /><br />
      Phone No:<input type="text" name="phno" maxlength="10"><br><br>
      Gender: <input type="radio" name="gender" value="male">Male
      <input type="radio" name="gender" value="female">Female<br><br>
      <input type="submit" value="submit" />
    </form>
  </center>
</body>
</html>
```

```
function validateform() {
  let name = document.myform.name.value
  let email = document.myform.email.value
  let password=document.myform.password.value
  let location = document.myform.location.value
  let phno = document.myform.phno.value
  let gender = document.myform.gender.value
  if (name == null || name == "") {
    alert("Name can't be blank")
    return false
  }
  else if (email == null)
  {

    alert(
      'Mail must be at least 6 characters long or check and enter a valid mail id'
    )
    return false
  }
  else if (location == null || location == "")
  {
    alert("location can't be blank ")
    return false
  }
  else if (password.length < 6)
  {
    alert('Password must be at least 6 characters long.')
    return false
  }
  else if (phno == null || phno == "")
  {
    alert('Enter a valid mobile No')
    return false
  }
  else if (!gender.length)
  {
```

```

    alert('You must select male or female')
    return false
}
}

```

4) a Retrieve text file from web server

Index.html

```

<!DOCTYPE html>
<html>
<body>
<div id="demo">
<h1>The XMLHttpRequest Object</h1>
<button type="button" onclick="loadDoc()">Change Content</button>
</div>
<script>
function loadDoc() {
const xhttp = new XMLHttpRequest(); xhttp.onreadystatechange = function() {
if (this.readyState == 4 && this.status == 200) {
document.getElementById("demo").innerHTML=this.responseText; }
};
xhttp.open("GET", "ajax.txt", true); xhttp.send();
}
</script>
</body>
</html>

```

Ajax.txt

AJAX is not a programming language.

AJAX is a technique for accessing web servers from a web page.

AJAX stands for Asynchronous JavaScript And XML.

4b) retrieve data from xml file

```

<!DOCTYPE html>
<html>
<body bgcolor="FloralWhite">
<h1><center><font face="Arial">The XMLHttpRequest Object Form XML File</font></center></h1>
<p><b>Status: </b><span id="A1"></span></p>
<p><b>Status Text: </b><span id="A2"></span></p>
<p><b>Response: </b><span id="A3"></span></p>
<button type="button" onclick="loadDoc('assign.xml')">Click here</button>
<script>
function loadDoc(url)
{
var xhttp = new XMLHttpRequest();
xhttp.onreadystatechange = function()
{
if (this.readyState == 4 && this.status == 200)
{
document.getElementById("A1").innerHTML=this.status; document.getElementById("A2").innerHTML = this.statusText;
document.getElementById("A3").innerHTML = this.responseText; }
};
xhttp.open("GET", url , true);
xhttp.send();
}
</script>
</body>
</html>

```

assign.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<books>
<heading>Welcome To GeeksforGeeks </heading>
<book>
<title>Title -: Web Programming</title>
<author>Author -: Chrisbates</author>

```

```

        <publisher>Publisher -: Wiley</publisher>
        <edition>Edition -: 3</edition>
        <price> Price -: 300</price>
    </book>
</books>

```

5) Webpage using xml and css

Books.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/css" href="Rules.css"?>
<books>
    <heading>Welcome To GeeksforGeeks </heading>
    <book>
        <title>Title -: Web Programming</title>
        <author>Author -: Chrisbates</author>
        <publisher>Publisher -: Wiley</publisher>
        <edition>Edition -: 3</edition>
        <price> Price -: 300</price>
    </book>
    <book>
        <title>Title -: Internet world-wide-web</title>
        <author>Author -: Ditel</author>
        <publisher>Publisher -: Pearson</publisher>
        <edition>Edition -: 3</edition>
        <price>Price -: 400</price>
    </book>
    <book>
        <title>Title -: Computer Networks</title>
        <author>Author -: Foruouzan</author>
        <publisher>Publisher -: Mc Graw Hill</publisher>
        <edition>Edition -: 5</edition>
        <price>Price -: 700</price>
    </book>
    <book>
        <title>Title -: DBMS Concepts</title>
        <author>Author -: Navath</author>
        <publisher>Publisher -: Oxford</publisher>
        <edition>Edition -: 5</edition>
        <price>Price -: 600</price>
    </book>
    <book>
        <title>Title -: Linux Programming</title>
        <author>Author -: Subhitab Das</author>
        <publisher>Publisher -: Oxford</publisher>
        <edition>Edition -: 8</edition>
        <price>Price -: 300</price>
    </book>
</books>

```

Rules.css

```

books {
    color: white;
    background-color : gray;
    width: 100%;
}
heading {
    color: green;
    font-size : 40px;
    background-color : powderblue;
}
heading, title, author, publisher, edition, price {
    display : block;
}
title {
    font-size : 25px;
    font-weight : bold;
}

```

```
}
```

6) Angular directives

```
<!doctype html>
<html ng-app="myModule">
<head>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min
.js"></script>
<script src="book.js"></script>
<link rel="stylesheet" href="book.css">
<link rel="stylesheet" href="https://netdna.bootstrapcdn.com/twitterbootstrap/2.0.4/css/bootstrap-combined.min.css">
</head>
<body><center><h1>The Book Details</h1>
<div ng-controller="myController">
<table>
<thead>
<tr>
<th>Title of Book</th>
<th>Author Name</th>
<th> Publisher Name</th>
<th> Price of the Book</th>
</tr>
</thead>
<tbody>
<tr ng-repeat="book in books">
<td>{{book.title | uppercase}}</td>
<td>{{book.author}}</td>
<td>{{book.publisher}}</td>
<td>{{book.price}}</td>
</tr>
</tbody>
</center>
</body>
</html>
```

book.css

```
body{
  font-family:Arial;
}
table{
  border-collapse: collapse;
}
td{
  border:1px solid black;
  padding: 5px;
}
th{
  border:1px solid black;
  padding: 5px;
  text-align: left;
}
```

book.js

```
var myApp = angular.module("myModule",[])
.controller("myController",function($scope){
  var books=[
    {title:"Junior Level Books Introduction to Computer",author:"Amit Garg",
    publisher:"Reader's Zone",price:"Rs.200/-" },
    {title:"Client Server Computing",author:" Lalit Kumar ", publisher:"Sun India Publications",price:"Rs.400/-" },
    {title:" Mobile Computing",author:"Vinay Kumar Singhal", publisher:"K Nath & Sons",price:"Rs.150/-" },
    {title:"CBOT",author:"Verma", publisher:
      "Thakur Publications ",price: "Rs.80/-" },
  ];
  $scope.books=books;
});
```

7) Angular expressions

```
<!doctype html>
<html ng-app>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min
.js"></script>
<link rel="stylesheet" href="https://netdna.bootstrapcdn.com/twitterbootstrap/2.0.4/css/bootstrap-combined.min.css">
</head>
<body ng-app><h1><center>Angular JS Expressions</center></h1>
<div>
<h3>Angular JS Expressions for Evaluation</h3>
The value is: {{1+2*2}}
</div>
<div>
<h3>Angular JS Expressions for Array</h3>
The Array : {{[1,2,3,4,5,6,7,8,9][4]}}
</div>
<h3>Angular JS Expressions for Opertors</h3>
<div>
The Opertors is: {{1==1}}
</div>
<div>
The Opertors is: {{1==2}}
</div>
<h3>Angular JS Expressions for Numbers</h3>
<div ng-init="a=100;b=50">
the sum is: {{(a+b)}}

</div>
<h3>Angular JS Expressions for String</h3>
<div ng-init="s1='Welcome';s2='AngularJS'">
{{(s1+s2)}}

</div>
<h3>Angular JS Expressions for objects</h3>
<div ng-init="obj={s1:'Thank',s2:'You'}">
{{(obj.s1+" "+obj.s2)}}
</div>

</body>
</html>
```

8) Jquery selectors

```
<!DOCTYPE html>
<html>
<head>
<style>
h1{
color: black;

}
body{
text-align: center;
background-color:floralwhite;
}
#hide{
width: 50px;
margin: 0 auto;
}
</style>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
$("#hide").click(function(){
```

```

        $(".p").hide();
    });
    $("#show").click(function(){
        $(".p").show();
    });
});
</script>
</head>
<body>
<h1>jQUERY SELECTORS</h1>
<h2>(39120109 -Sharon Swetha X)</h2>
<div id="test">
<h2 style="color: brown">Sathyabama University</h2>
<p style="color: red">On clicking hide button...This line will be disappeared</p>
<button id="hide" style="background-color: brown; color:whitesmoke">Hide</button>&nbsp;
<button id="show" style="background-color: brown; color:whitesmoke"> Show</button>&nbsp;
<button id="unselect" style="background-color: brown; color:whitesmoke">Unselect</button>
</div>
</body>
</html>

```

9) JQuery Events

```

<!DOCTYPE html>
<html>
<head>
<Title>39120109-JQuery Events</Title>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
    $("#Tweet_head").click(function(){
        $("#Tweet_text").slideDown("slow");
        $("#Tweet_text").fadeOut("fast");
        $("#Tweet_text").fadeIn("fast");
    });
});
</script>

<style>
#Tweet_text{
    padding: 40px;
    display: none;
}
#Tweet_text, #Tweet_head {
    padding: 5px;
    font-size: 5px;
    text-align: center;
    background-color: Floralwhite;
    border: solid 1px black;
}
.Tweet_pic{
    height: 15%;
    width:20%;
    margin:auto;
}
</style>
</head>

<body>
<div id="Tweet_head">TWEET</div>
<div id="Tweet_text"><p>Machine learning (ML) is a type of artificial intelligence (AI) that allows software applications to become more accurate at predicting outcomes without being explicitly programmed to do so.<br>Machine learning algorithms use historical data as input to predict new output values.</p>

<br>

```

```

<center>Tweet by Sharon Swetha-39120109 .</center>
</div>
</body>

</html>

```

10) PHP form validation

```

<!DOCTYPE HTML>
<html>
<head>
<style>
.error{
color:yellow;}
body {
background-image: url('2.jpg') ;
background-repeat: no-repeat;
background-attachment: fixed;
background-size: cover;

}

</style>
</head>
<body>
<center>

<?php
// define variables and set to empty values
$nameErr = $emailErr = $genderErr = $websiteErr = "";
$name = $email = $gender = $comment = $website = "";

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    if (empty($_POST["name"])) {
        $nameErr = "Name is required";
    } else {
        $name = test_input($_POST["name"]);

        if (!preg_match("/^[a-zA-Z-' ]*$/", $name)) {
            $nameErr = "Only letters and white space allowed";
        }

    }

    if (empty($_POST["email"])) {
        $emailErr = "Email is required";
    } else {
        $email = test_input($_POST["email"]);
        if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
            $emailErr = "Invalid email format";
        }

    }

    if (empty($_POST["website"])) {
        $website = "";
    } else {
        $website = test_input($_POST["website"]);
        if (!preg_match("/\b(?:https?|ftp):\/\/www\.[a-z0-9+&@#\/%=?~_!|:,;]*[a-z0-9+&@#\/%=?~_!]/i", $website)) {
            $websiteErr = "Invalid URL";
        }

    }

    if (empty($_POST["comment"])) {
        $comment = "";
    } else {

```

```

    $comment = test_input($_POST["comment"]);
}

if (empty($_POST["gender"])) {
    $genderErr = "Gender is required";
} else {
    $gender = test_input($_POST["gender"]);
}
}

function test_input($data) {
    $data = trim($data);
    $data = stripslashes($data);
    $data = htmlspecialchars($data);
    return $data;
}
?>

<font color="white">
<h1> Form Validation </h1>
<p><span class="error">* required field</span></p>
<form method="post" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]);?>">
    Name: <input type="text" name="name" placeholder="Enter name">
    <span class="error">* <?php echo $nameErr;?></span>
<br><br>
    E-mail: <input type="text" name="email" placeholder="Enter email address">
    <span class="error">* <?php echo $emailErr;?></span>
<br><br>
    Website: <input type="text" name="website" placeholder="Enter website url">
    <span class="error">* <?php echo $websiteErr;?></span>
<br><br>
    Comment: <textarea name="comment" rows="5" cols="40" placeholder="Your Comment"></textarea>
<br><br>
    Gender:
    <input type="radio" name="gender" value="female">Female
    <input type="radio" name="gender" value="male">Male
    <input type="radio" name="gender" value="other">Other
    <span class="error">* <?php echo $genderErr;?></span>
<br><br>
    <input type="submit" name="submit" value="Submit">
</form>
<br>
<?php
echo "<h2>Your Input:</h2>";
echo $name;
echo "<br>";
echo $email;
echo "<br>";
echo $website;
echo "<br>";
echo $comment;
echo "<br>";
echo $gender;
?>
</font>
</center>
</body>
</html>

```

11) PHP Form handling

```

<html>
<head>
<title> PHP FORM</title>
</head>
<style>
body {

```



```

background-image: url('white.jpg') ;
background-repeat: no-repeat;
background-attachment: fixed;
background-size: cover;

}
</style>
<body ALIGN="center">
<form action="registration.php" method="POST">
<center style="background-color:#000000">
<h1><font color="white" size="35"><b>SATHYABAMA</b></font></h1>
<h1><font color="white"><b>INSTITUTE OF SCIENCE AND TECHNOLOGY</b></font></h1>
<H2><font color="white"><b> [REGISTRATION FORM] </b></font></H2>
<br>
</CENTER>
<br><br>
First Name: <input type="text" name="fname"><br><br>
Last Name: <input type="text" name="lname"><br><br>
E-mail Id: <input type="email" name="email" required><br><br>
Gender: <input type="radio" name="gender" value="male">Male
<input type="radio" name="gender" value="female">Female<br><br>
Phone Number: <input type="text" name="phno" maxlength="10"><br><br>
<input type="submit" name="submit" value="submit">
</p>
</form>
</body>
</html>

```

PHP PAGE:

```

<?php if (isset($_POST['submit'])):?>
<h1>Thank you for registering <?php echo $_POST['fname'];?></h1>
<h4>You have been recorded as
<?php echo $_POST['fname'] . ' ' . $_POST['lname'];?></h4>
<p>First Name: <?php echo $_POST['fname'];?><br><br>
Last Name: <?php echo $_POST['lname'];?><br><br>
E-mail Id: <?php echo $_POST['email'];?><br><br>
Gender:
<?php
$radioVal=$_POST["gender"];
if($radioVal=="male")
{
echo("Male");
}
else
{
echo("Female");
}
?><br><br>
Phone Number: <?php echo $_POST['phno'];?>
</p>
<link rel="stylesheet" href="registration.css">
<?php endif; ?>

```

CSS

```

body {
background-image: url('bg.jpg') ;
background-repeat: no-repeat;
background-attachment: fixed;
background-size: cover;
}

```

12) Database

```

<html>
<head>
<title> Database Connectivity</title>

```

```

</head>
<style>
body {
    background-image: url('s.jpg') ;
    background-repeat: no-repeat;
    background-attachment: fixed;
    background-size: cover;

}

</style>
<body>
<center>
<font color="white">
<h1> DATABASE CONNECTIVITY </h1>
<br>
<br>
<form action="data.php" method="post">
<b>Name: </b><input type="text" name="name" id="name"><br><br>
<b>RegNo: </b><input type="text" name="regno" id="regno"><br><br>
<input type="submit">
</font>
</center>
</form>

</body>
</html>

```

(PHP PAGE):

```

<?php
$name=$_POST['name'];
$regno=$_POST['regno'];
$conn = new mysqli('localhost','root','','register');
if($conn->connect_error)
{
    die('Connection failed: '.$conn->connect_error);
}
else{
    $stmt=$conn->prepare("insert into datainfo(Name,RegNo)values(?,?)");
    $stmt->bind_param("si",$name,$regno);
    $stmt->execute();
    echo "Registration successful". "<br>";
    $stmt->close();
}
$sql = "SELECT Name, RegNo FROM datainfo";
$result=$conn->query($sql);
if ($result->num_rows > 0) {

    while($row = $result->fetch_assoc()) {
        echo "<br>". "Name: " . $row["Name"]. "<br>". "RegNo: " . $row["RegNo"]. "<br>";
    }
} else {
    echo "0 results";
}
$conn->close();
?>

```

External and Internal:

Html>

<head>

<title> rover</title>

<style>

Body

```
{  
  
Font-family:Times New Roman;  
  
Color:black;  
  
Background-image:url('https://cdn.pixabay.com/photo/2016/10/20/18/35/earth-1756274__340.jpg');  
  
Background-repeat:no-repeat;  
  
Background-size:100% 100%;  
  
Background-attachment:fixed;  
  
}
```

```
P  
  
{  
  
Margin-left:95px;  
  
Margin-right:100px;  
  
Text-align:center;  
  
Border-style:line;  
  
Border-width:15px;  
  
Width:800;  
  
Font-size:23px;  
  
}
```

```
H1  
  
{  
  
Font-size:70;  
  
Text-align:center;  
  
Color:white;  
  
Border-style:groove;  
  
Border-color:lightblue;  
  
Border-width:10px;  
  
Width:1502;  
  
}
```

Div

{

Background-color:grey ;

}

</style>

</head>

<body>

<h1> NASA</H1>

<p style="color:cyan;"> <u>PERSEVERANCE ROVER</u>

<img src=https://www.nasa.gov/sites/default/files/thumbnails/image/pia24663-mastcam-zs-360-degree-view-of-van-zy1-overlook_with-rover_supplemental-1041.jpg width="450" height="200"

Align="right" >

The <a href=<https://www.nasa.gov/feature/jpl/nasa-s-perseverance-rover-begins-its-first-science-campaign-on-mars>>Mars Perseverance rover mission is part of NASA's Mars Exploration Program, a long-term effort of robotic exploration of the Red Planet.

The Mars Perseverance mission addresses high-priority science goals for Mars exploration, including key questions about the potential for life on Mars.

The mission takes the big next step by not only seeking signs of habitable conditions on Mars in the ancient past, but also searching for signs of past microbial life itself. The Mars

Perseverance rover introduces a drill

That can collect core samples of the most promising rocks and soils and set them aside in a "cache" on the surface of Mars. The mission also provides opportunities to gather knowledge

And demonstrate technologies that address the challenges of future human expeditions to Mars. These include testing a method for producing oxygen from the Martian atmosphere, identifying

Other resources (such as subsurface water), improving landing techniques, and characterizing weather, dust, and other potential environmental conditions that could affect future astronauts

Living and working on Mars. The rover is set to land on Mars in Jezero Crater on Feb. 18, 2021.

On June 1, NASA's Perseverance Mars rover kicked off the science phase of its mission by leaving the "Octavia E. Butler" landing site. Until recently, the rover has been undergoing systems

Tests, or commissioning, and supporting the Ingenuity Mars Helicopter's month of flight tests. During the first few weeks of this first science campaign, the mission team will drive to a

Low-lying scenic overlook from which the rover can survey some of the oldest geologic features in Jezero Crater, and they'll bring online the final capabilities of the rover's

Auto-navigation and sampling systems.

</P>

</body>

</html>
External:

HTML PAGE:

<html>

<head>

<title>rover</title>

<link rel="stylesheet" href="css/39120109css.css">

</head>

<body>

<h1>NASA</h1>

<p style="color:cyan;"> <u>PERSEVERANCE ROVER</u>

<img src=https://www.nasa.gov/sites/default/files/thumbnails/image/pia24663-mastcam-zs-360-degree-view-of-van-zyl-overlook_with-rover_supplemental-1041.jpg width="450" height="200"

Align="right" >

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Low-lying scenic overlook from which the rover can survey some of the oldest geologic features in Jezero Crater, and they’ll bring online the final capabilities of the rover’s

Auto-navigation and sampling systems.

</P>

</body>

</html>

CSS PAGE:

Body

{

Font-family: Times New Roman;

Color: black;

Background-image: url(‘sun.jpg’);

Background-repeat: no-repeat;

Background-size: 100% 100%;

Background-attachment: fixed;

```
}
```

P

```
{
```

```
Margin-left:95px;
```

```
Margin-right:100px;
```

```
Text-align: center;
```

```
Border-style:line;
```

```
Border-width:15px;
```

```
Width:800;
```

```
Font-size:23px;
```

```
}
```

H1

```
{
```

```
Font-size:70px;
```

```
Text-align: center;
```

```
Color:white;
```

```
Border-style:groove;
```

```
Border-color:lightblue;
```

```
Border-width:10px;
```

```
Width:1502;
```

```
}
```

Div

```
{
```

```
Background-color:grey ;
```

```
}
```