

Javascript

```
<!DOCTYPE html><!-- JS22.html -->
<html>
  <body>

    <p>Never create strings as objects.</p>
    <p>Strings and objects cannot be safely compared.</p>

    <p id="demo"></p>

    <script>
      var x1 = "John";           // x is a string
      var x2 = "John";           // x is a string
      var y1 = new String("John"); // y is an object
      var y2 = new String("John"); // z is an object
      document.getElementById("demo").innerHTML =
        (x1==x2)+"\t" + (x1===x2)+"\t" + (x1==y1)+"\t" +
        (x1===y1)+"\t" + (y1==y2)+"\t" + (y1===y2);
    </script>

  </body>
</html>
```

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<!DOCTYPE html><!-- JS23.html -->
<html>
  <body>

    <h1>JavaScript Math</h1>
    <p id="demo"></p>

    <script>
      document.getElementById("demo").innerHTML = Math.PI
      + "</br>" + Math.round(4.4)
      + "</br>" + Math.round(4.8)
      + "</br>" + Math.pow(8,2)
      + "</br>" + Math.sqrt(64)
      + "</br>" + Math.abs(-4.7)
      + "</br>" + Math.ceil(4.4)
      + "</br>" + Math.floor(4.7)
      + "</br>" + Math.sin(90 * Math.PI / 180)
      + "</br>" + Math.min(0, 150, 30, 20, -8, -200);
    </script>

  </body>
</html>
```

```
<!DOCTYPE html><!-- JS24.html -->
<html>
  <body>
    <h1>If-Else</h1>
    <p>Click the button to get a time-based greeting:</p>

    <button onclick="myFunction()">Try it</button>

    <p id="demo"></p>

    <script>
      function myFunction() {
        var greeting;
        var time = new Date().getHours();
        if (time < 10) {
          greeting = "Good morning";
        } else if (time < 20) {
          greeting = "Good day";
        } else {
          greeting = "Good evening";
        }
        document.getElementById("demo").innerHTML = greeting;
      }
    </script>

  </body>
</html>
```

```
<!DOCTYPE html><!-- JS25.html -->
<html>
  <body>
    <p id="demo"></p>
    <script> var day;
      switch (new Date().getDay()) {
        case 0: day = "Sunday"; break;
        case 1: day = "Monday"; break;
        case 2: day = "Tuesday"; break;
        case 3: day = "Wednesday"; break;
        case 4: day = "Thursday"; break;
        case 5: day = "Friday"; break;
        case 6: day = "Saturday";
      }
      document.getElementById("demo").innerHTML = "Today is " + day;
    </script>
    <!--<p id="demo1"></p>
    <script> var text1;
      switch (new Date().getDay()) {
        case 1:
        case 2:
        case 3: text1 = "Looking forward to the Weekend"; break;
        case 4:
        case 5: text1 = "Soon it is Weekend"; break;
        case 0:
        case 6: text1 = "It is Weekend";
      }
      document.getElementById("demo1").innerHTML = text1;
    </script> -->
  </body>
</html>
```



```
<!DOCTYPE html><!-- JS26.html -->
<html>
  <body>
    <h1>JavaScript Loops</h1>
    <p id="demo"></p>
    <script>
      var text = "";
      var i;
      for (i = 0; i < 5; i++) {
        text += "The number is " + i + "<br>";
      }
      document.getElementById("demo").innerHTML = text;
    </script>

    <p>The for/in statement loops through the properties of an object.</p>
    <p id="demo1"></p>
    <script>
      var txt = "";
      var person = {fname:"John", lname:"Doe", age:25};
      var x;
      for (x in person) {
        txt += person[x] + " ";
      }
      document.getElementById("demo1").innerHTML = txt;
    </script>
  </body>
</html>
```

```
<!DOCTYPE html><!-- JS27.html -->
<html>
  <body>
    <h1>JavaScript while</h1>
    <p id="demo"></p>
    <script>
      var text = "";
      var i = 0;
      while (i < 10) {
        text += "<br>The number is " + i;
        i++;
      }
      document.getElementById("demo").innerHTML = text;
    </script>

    <h1>JavaScript do ... while</h1>
    <p id="demo1"></p>
    <script>
      var text = ""
      var i = 0;

      do {
        text += "<br>The number is " + i;
        i++;
      }
      while (i < 10);
      document.getElementById("demo1").innerHTML = text;
    </script>
  </body>
</html>
```

```
<!DOCTYPE html><!-- JS28.html -->
<html>
  <body>
    <h3>Try Catch</h3>
    <p id="demo"></p>

    <script>
      try {
        adddlert("Welcome guest!");
      }
      catch(err) {
        document.getElementById("demo").innerHTML = err.message;
      }
    </script>

  </body>
</html>
```



```
<!DOCTYPE html><!-- JS29.html -->
<html>
  <body>
    <h3>Try Throw Catch</h3>
    <p>Please input a number between 5 and 10:</p>

    <input id="demo" type="text">
    <button type="button" onclick="myFunction()">Test Input</button>
    <p id="message"></p>

    <script>
      function myFunction() {
        var message, x;
        message = document.getElementById("message");
        message.innerHTML = "";
        x = document.getElementById("demo").value;
        try {
          if(x == "")    throw "empty";
          if(isNaN(x))   throw "not a number";
          x = Number(x);
          if(x < 5)      throw "too low";
          if(x > 10)     throw "too high";
        }
        catch(err) {
          message.innerHTML = "Input is " + err;
        }
      }
    </script>
  </body>
</html>
```

```
<!DOCTYPE html><!-- JS30.html -->
<html>
  <body>
    <h3>Try Throw Catch Finally</h3>
    <p>Please input a number between 5 and 10:</p>
    <input id="demo" type="text">
    <button type="button" onclick="myFunction()">Test Input</button>
    <p id="message"></p>
    <script>
      function myFunction() {
        var message, x;
        message = document.getElementById("message");
        message.innerHTML = "";
        x = document.getElementById("demo").value;
        try {
          if(x == "") throw "is empty";
          if(isNaN(x)) throw "is not a number";
          x = Number(x);
          if(x > 10) throw "is too high";
          if(x < 5) throw "is too low";
        }
        catch(err) {
          message.innerHTML = "Input " + err;
        }
        finally {
          document.getElementById("demo").value = "";
        }
      }
    </script>
  </body>
</html>
```

```
<!DOCTYPE html><!-- p13.html -->
<html>
  <head>
    <title>form0</title>
  </head>
  <body>
    <form action="http://localhost/register.php" method="get">
      <input name="email" placeholder="Email" type="text">
      <input name="password" placeholder="Password" type="password">
      <input name="confirmation" placeholder="Password (again)" type="password">
      <input name="agreement" type="checkbox"> I agree
      <input type="submit" value="Register">
    </form>
  </body>
</html>
```

```
<!DOCTYPE html><!-- pl4.html -->
<html>
  <head><title>form1</title></head>
  <body>
    <form action="http://localhost/register.php" id="registration" method="get">
      <input name="email" placeholder="Email" type="text">
      <input name="password" placeholder="Password" type="password">
      <input name="confirmation" placeholder="Password (again)" type="password">
      <input name="agreement" type="checkbox"> I agree
      <input type="submit" value="Register">
    </form>
    <script>
      var form = document.getElementById('registration');
      form.onsubmit = function()
      {
        if (form.email.value == '') {
          alert('missing email'); return false; }
        else if (form.password.value == '') {
          alert('missing password'); return false; }
        else if (form.password.value != form.confirmation.value) {
          alert('passwords don\'t match'); return false; }
        else if (!form.agreement.checked) {
          alert('checkbox unchecked'); return false; }
        return true;
      };
    </script>
  </body>
</html>
```



```
<!DOCTYPE html><!-- p15.html -->
<html>
  <head><title>form2</title>
    <script src="https://code.jquery.com/jquery-latest.min.js"></script>
    <script>
      $(document).ready(function() {
        $('#registration').submit(function() {
          if ($('#registration input[name=email]').val() == '') {
            alert('missing email'); return false;
          }
          else if ($('#registration input[name=password]').val() == '') {
            alert('missing password'); return false;
          }
          else if ($('#registration input[name=password]').val() !=
            $('#registration input[name=confirmation]').val()) {
            alert('passwords don\'t match'); return false;
          }
          else if (!$('#registration input[name=agreement]').is(':checked')) {
            alert('checkbox unchecked'); return false;
          }
          return true;
        });
      });
    </script>
  </head>
  <body>
    <form action="http://localhost/register.php" id="registration" method="get">
      <input name="email" placeholder="Email" type="text">
      <input name="password" placeholder="Password" type="password">
      <input name="confirmation" placeholder="Password (again)" type="password">
      <input name="agreement" type="checkbox"> I agree
      <input type="submit" value="Register">
    </form>
  </body>
</html>
```



```
<!DOCTYPE html><!-- p16.html -->
<html>
  <head><title>form3</title>
    <link href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css" rel="stylesheet"/>
    <script src="https://code.jquery.com/jquery-latest.min.js"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
    <!-- http://1000hz.github.io/bootstrap-validator/ -->
    <script src="https://cdnjs.cloudflare.com/ajax/libs/1000hz-bootstrap-validator/0.11.5/validator.min.js"></script>
  </head>
  <body><div class="container">
    <form action="http://localhost/register.php" data-toggle="validator" id="registration" method="get">
      <div class="form-group">
        <label for="email" class="control-label">Email</label>
        <input class="form-control" id="email" required type="text">
        <div class="help-block with-errors"></div></div>
      <div class="form-group">
        <label for="password" class="control-label">Password</label>
        <input class="form-control" data-minlength="8" id="password" required type="password">
        <div class="help-block with-errors"></div></div>
      <div class="form-group">
        <label for="confirmation" class="control-label">Password (again)</label>
        <input class="form-control" data-match="#password"
          data-match-error="passwords don't match" id="confirmation" required type="password">
        <div class="help-block with-errors"></div></div>
      <div class="form-group"><div class="checkbox"><label>
        <input data-error="checkbox unchecked" id="agreement" required type="checkbox">I agree</label>
        <div class="help-block with-errors"></div></div></div>
      <div class="form-group"><button class="btn btn-default" type="submit">Register</button></div>
    </form></div>
  </body>
</html>
```

```
<!DOCTYPE html><!-- p17.html -->
```

```
<html>
  <head>
    <title>geolocation</title>
  </head>
  <body>
    <script>

      navigator.geolocation.getCurrentPosition(function(position) {
        document.write(position.coords.latitude + ', ' + position.coords.longitude);
      });

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

```
<!DOCTYPE html><!-- p18.html -->
<html>
  <head><title>map</title>
    <style>
      html, body, #map {height: 100%; margin: 0;}
    </style>
  </head>
  <body>
    <div id="map"></div>
    <script>
      function initMap() {
        var map = new google.maps.Map(document.getElementById('map'), {
          center: {lat: 21.145, lng: 79.088},
          zoom: 5
        });
        var marker = new google.maps.Marker({
          map: map,
          position: {lat: 13.549, lng: 80.010}
        });
        var marker = new google.maps.Marker({
          map: map,
          position: {lat: 28.704, lng: 77.102}
        });
      }
    </script>
    <script
      src="https://maps.googleapis.com/maps/api/js?key=AIzaSyC_njqluzAuprRdjXVMGuwU0QPHCFy-Jsw&callback=initMap">
    </script>
  </body>
</html>
```