***JavaScript Date***

<!DOCTYPE HTML>

<html>

<head></head>

<body>

<h3>**JavaScript Date Output**<br>

By default, JavaScript will use the browser's time zone and display a date as a full text string:</h3>

<p id="demo"></p><p id="demo1"></p><p id="demo2"></p><p id="demo3"></p><p id="demo4"></p>

<p id="demo5"></p><p id="demo6"></p><p id="demo7"></p><p id="demo8"></p><p id="demo9"></p>

<p id="demo10"></p><p id="demo11"></p><p id="demo12"></p><p id="demo13"></p><p id="demo14"></p>

<p id="demo15"></p><p id="demo16"></p><p id="demo17"></p><p id="demo18"></p><p id="demo19"></p>

<p id="demo20"></p><p id="demo21"></p><p id="demo22"></p><p id="demo23"></p><p id="demo24"></p>

<p id="demo25"></p>

<script>

**var d=Date();**

document.getElementById("demo").innerHTML=d; //Thu Mar 21 2019 12:14:03 GMT+0530 (India Standard Time)

**var d1=new Date();**

document.getElementById("demo1").innerHTML=d1; //Thu Mar 21 2019 12:14:03 GMT+0530 (India Standard Time)

**/\*Creating Date Objects**

**Date objects are created with the new Date() constructor.**

**There are 4 ways to create a new date object:**

**new Date()**

**new Date(year, month, day, hours, minutes, seconds, milliseconds)**

**new Date(milliseconds)**

**new Date(date string)\*/**

**//new Date()**

**//new Date() creates a new date object with the current date and time:**

var d=Date();

document.getElementById("demo").innerHTML=d; //Thu Mar 21 2019 12:14:03 GMT+0530 (India Standard Time)

**/\*new Date(year, month, ...)**

new Date(year, month, ...) creates a new date object with a specified date and time.

**7 numbers specify year, month, day, hour, minute, second, and millisecond (in that order):**

**Note: JavaScript counts months from 0 to 11.**

**January is 0. December is 11.**

**6 numbers specify year, month, day, hour, minute, second:**

**similarly,for 5,4,3 and 2 numbers specify year, month.**

**But You cannot omit month. If you supply only one parameter it will be treated as milliseconds.\*/**

var a= new Date(2019, 2, 21, 10, 33, 30, 0);

document.getElementById("demo2").innerHTML=a; //Thu Mar 21 2019 10:33:30 GMT+0530 (India Standard Time)

var b= new Date(2019, 2, 21, 10);

document.getElementById("demo3").innerHTML=b;//Thu Mar 21 2019 10:00:00 GMT+0530 (India Standard Time)

var c= new Date(2019, 6);

document.getElementById("demo4").innerHTML=c; //Mon Jul 01 2019 00:00:00 GMT+0530 (India Standard Time)

var d= new Date(2019);

document.getElementById("demo5").innerHTML=d; //Thu Jan 01 1970 05:30:02 GMT+0530 (India Standard Time)(01 January 1970+2019ms)

var e= new Date(-2019);

document.getElementById("demo6").innerHTML=e; //Thu Jan 01 1970 05:29:57 GMT+0530 (India Standard Time)(01 January 1970-2019ms)

**/\*Previous Century**

**One and two digit years will be interpreted as 19xx:\*/**

var prev= new Date(87, 8, 27, 10, 33, 30, 0);

document.getElementById("demo7").innerHTML=prev; //Sun Sep 27 1987 10:33:30 GMT+0530 (India Standard Time)

var toStr= new Date;

document.getElementById("demo8").innerHTML=toStr.toString(); //Thu Mar 21 2019 13:45:24 GMT+0530 (India Standard Time)

document.getElementById("demo9").innerHTML=toStr.toUTCString(); //Thu, 21 Mar 2019 08:16:10 GMT

**//NOTE: UTC(Universal Time Coordinated) is 5 hours and 30 minutes behind of India Standard Time**

document.getElementById("demo10").innerHTML=toStr.toDateString(); //Thu Mar 21 2019 (more readable format)

**/\*JavaScript Date Formats**

**JavaScript Date Input**

**There are generally 3 types of JavaScript date input formats:**

**Type Example**

**ISO Date "2015-03-25" (The International Standard)**

**Short Date "03/25/2015"**

**Long Date "Mar 25 2015" or "25 Mar 2015" \*/**

var d1 = new Date("2015-03-25"); //Complete date

var d2 = new Date("2015-03"); //Year and Month

var d3 = new Date("2015"); //Only Year

document.getElementById("demo11").innerHTML=d1; //Wed Mar 25 2015 05:30:00 GMT+0530 (India Standard Time)

document.getElementById("demo12").innerHTML=d2; //Sun Mar 01 2015 05:30:00 GMT+0530 (India Standard Time)

document.getElementById("demo13").innerHTML=d3; //Thu Jan 01 2015 05:30:00 GMT+0530 (India Standard Time)

**/\*JavaScript Short Dates.**

**Short dates are written with an "MM/DD/YYYY" syntax like this:\*/**

**var d4 = new Date("03/25/2015");**

**document.getElementById("demo14").innerHTML=d4;**

**/\*WARNINGS !\*/**

var d5 = new Date("2015-3-25"); //In some browsers, months or days with no leading zeroes may produce an error:

var d6 = new Date("2015/03/25"); //The behavior of "YYYY/MM/DD" is undefined.Some browsers will try to guess the format. Some will return NaN.

var d7 = new Date("25-03-2015"); //The behavior of "DD-MM-YYYY" is also undefined.Some browsers will try to guess the format. Some will return NaN.

document.getElementById("demo15").innerHTML=d5; //Wed Mar 25 2015 00:00:00 GMT+0530 (India Standard Time)

document.getElementById("demo16").innerHTML=d6; //Wed Mar 25 2015 00:00:00 GMT+0530 (India Standard Time)

document.getElementById("demo17").innerHTML=d7; //Invalid Date

**/\*JavaScript Long Dates.**

**Long dates are most often written with a "MMM DD YYYY" syntax like this:\*/**

var d8 = new Date("Mar 25 2015");

var d9 = new Date("25 Mar 2015");

**//And, month can be written in full (January), or abbreviated (Jan):**

**//Commas are ignored. Names are case insensitive:**

var d10 = new Date("January 25 2015");

var d11 = new Date("January 25 2015")

var d12 = new Date("Jan 25 2015");

var d13 = new Date("JANUARY, 25, 2015");

document.getElementById("demo18").innerHTML=d8+" demo18"; //Wed Mar 25 2015 00:00:00 GMT+0530 (India Standard Time)

document.getElementById("demo19").innerHTML=d9 ;//Wed Mar 25 2015 00:00:00 GMT+0530 (India Standard Time)

document.getElementById("demo20").innerHTML=d10; //Sun Jan 25 2015 00:00:00 GMT+0530 (India Standard Time)

document.getElementById("demo21").innerHTML=d11; //Sun Jan 25 2015 00:00:00 GMT+0530 (India Standard Time)

document.getElementById("demo22").innerHTML=d12; //Sun Jan 25 2015 00:00:00 GMT+0530 (India Standard Time)

document.getElementById("demo23").innerHTML=d13; //Sun Jan 25 2015 00:00:00 GMT+0530 (India Standard Time)

**/\*Date Input - Parsing Dates**

**If you have a valid date string, you can use the Date.parse() method to convert it to milliseconds.**

**Date.parse() returns the number of milliseconds between the date and January 1, 1970:\*/**

var msec = Date.parse("March 21, 2012");

document.getElementById("demo24").innerHTML = msec; //1332268200000

**//You can then use the number of milliseconds to convert it to a date object:**

var msec = Date.parse("March 21, 2012");

var d = new Date(msec);

//var d=new Date(1332268200000);

document.getElementById("demo25").innerHTML = d; //Wed Mar 21 2012 00:00:00 GMT+0530 (India Standard Time)

</script>

</body>

</html>