

JavaScript Objects

Module 3 - Date Object in JavaScript

JavaScript Date Object

**Definition:**

The JavaScript Date object is a built-in object used to work with dates and times. It represents a single moment in time and allows manipulation of years, months, days, hours, minutes, seconds, and milliseconds.

**Applications:**

- Displaying Date & Time - Used to show the current date and time in web applications.
- Event Scheduling - Helps in setting up timers, alarms, and reminders.
- Logging & Timestamps - Used to store timestamps for events, transactions, or activities.
- Date Calculations - Allows adding or subtracting days, months, or years for scheduling or expiration dates.
- Comparing Dates - Useful in validating deadlines, booking systems, or expiration checks.

Display Current Date and Time

Gets the system's current date and time.

**SYNTAX:**

```
let currentDate = new Date();  
document.write("Current Date & Time: " + currentDate);
```

**Solved Example:**

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <title>Current Date & Time</title>  
</head>  
<body>  
  <script>  
    let currentDate = new Date();  
    document.write("<h2>Current Date & Time: " + currentDate + "</h2>");  
  </script>  
</body>
```

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</html>

**OUTPUT:** This will display the current date and time in the browser.

Display a Specific Date

Creates a Date object for a predefined date and displays it.

**SYNTAX:**

```
let specificDate = new Date(2025, 1, 6, 10, 30, 0);  
document.write("Specific Date: " + specificDate.toDateString());
```

**Solved Example:**

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <title>Specific Date</title>  
</head>  
<body>  
  <script>  
    let specificDate = new Date(2025, 1, 6, 10, 30, 0);  
    document.write("<h2>Specific Date: " + specificDate.toDateString() +  
  "</h2>");  
  </script>  
</body>  
</html>
```

**OUTPUT:**

This will display:  
Specific Date: Thu Feb 06 2025

Extract and Display Individual Date Components

Retrieves specific parts of a date, like year, month, and day.

**SYNTAX:**

```
let date = new Date();  
document.write("Year: " + date.getFullYear() + "<br>");  
document.write("Month: " + (date.getMonth() + 1) + "<br>"); // Months are 0-based  
document.write("Day: " + date.getDate() + "<br>");  
document.write("Weekday: " + date.getDay());
```

**Solved Example:**

```
<!DOCTYPE html>  
<html lang="en">  
<head>
```

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```
<title>Date Components</title>
</head>
<body>
<script>
let date = new Date();
document.write("<h2>Year: " + date.getFullYear() + "</h2>");
document.write("<h2>Month: " + (date.getMonth() + 1) + "</h2>"); // +1 since
months are 0-based
document.write("<h2>Day: " + date.getDate() + "</h2>");
document.write("<h2>Day of Week: " + date.getDay() + "</h2>");
document.write("<h2>Hours: " + date.getHours() + "</h2>");
document.write("<h2>Minutes: " + date.getMinutes() + "</h2>");
document.write("<h2>Seconds: " + date.getSeconds() + "</h2>");
</script>
</body>
</html>
```

OUTPUT: Displays the current year, month, day, and time components.

Compare Two Dates

Checks which of two dates is earlier or later.

Solved Example:

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Compare Dates</title>
</head>
<body>
<script>
let date1 = new Date("2025-02-06");
let date2 = new Date("2025-02-10");

document.write("<h2>Date 1: " + date1.toString() + "</h2>");
document.write("<h2>Date 2: " + date2.toString() + "</h2>");

if (date1 < date2) {
document.write("<h2>Date 1 is earlier than Date 2</h2>");
} else if (date1 > date2) {
document.write("<h2>Date 1 is later than Date 2</h2>");
} else {
document.write("<h2>Both dates are the same</h2>");
}
</script>
```

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</body>  
</html>

### Assignment

**Ques 1:** Write a JavaScript program that extracts and displays:

- Year
- Month (in words, e.g., "February")
- Day of the month
- Day of the week (e.g., "Monday")
- Use document.write() to show the output.

**Ques 2:** Write a JavaScript program that:

- Takes two dates as input (Date objects).
- Compares them and prints which date is earlier, later, or if they are the same.

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