Date

1. **Current Date and Time: const now = new Date();**
2. **Specific Date: const specificDate = new Date(2024, 10, 29);**
3. **Date from String: const dateFromString = new Date("2024-11-29");**
4. **Using Timestamps: const fromTimestamp = new Date(1732845690000);**

Date & Time Components

```
1. const now = new Date();
2. console.log(now.getFullYear()); // Year (e.g., 2024)
3. console.log(now.getMonth());    // Month (0-11, 0 = January)
4. console.log(now.getDate());     // Day of the month (1-31)
5. console.log(now.getDay());      // Day of the week (0-6, 0 = Sunday)
6. console.log(now.getHours());    // Hour (0-23)
7. console.log(now.getMinutes());  // Minutes (0-59)
8. console.log(now.getSeconds());  // Seconds (0-59)
9. console.log(now.getMilliseconds()); // Milliseconds (0-999)
```

Setting Date Components

```
const date = new Date();
date.setFullYear(2030); // Set the year
date.setMonth(5);       // Set the month (0 = January)
date.setDate(15);       // Set the day of the month
date.setHours(10);      // Set the hour
date.setMinutes(45);    // Set the minutes
date.setSeconds(30);    // Set the seconds

console.log(date); // Modified date
```

Formatting Dates

```
console.log(date.toString());  // e.g., Fri Nov 29 2024 10:30:00 GMT+0530 (India Standard Time)
console.log(date.toISOString()); // ISO format: 2024-11-29T05:00:00.000Z
console.log(date.toUTCString()); // UTC format: Fri, 29 Nov 2024 05:00:00 GMT
console.log(date.toLocaleDateString()); // e.g., 11/29/2024
console.log(date.toLocaleTimeString()); // e.g., 10:30:00 AM
console.log(date.toLocaleString());     // e.g., 11/29/2024, 10:30:00 AM
```

Another format

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

Date Calculations

```
const date1 = new Date("2024-11-01");
const date2 = new Date("2024-11-29");

const difference = date2 - date1; // Difference in milliseconds
```

```
date.setDate(date.getDate() + 7);
console.log(date);
```

Countdown Timer