Date Time Manipulation:

JavaScript provides a built-in Date object for working with dates and times. The Date object can be used to get and set the date and time, perform operations on dates, and format dates for display.

Here are some examples of how to use the Date object in JavaScript:

1. Creating a new date object:

```JavaScript
let currentDate = new Date();
console.log(currentDate); // Output: current date and time
```

2. Creating a date object with specific date and time:

```JavaScript
let birthday = new Date("January 1, 2000 00:00:00");
console.log(birthday); // Output: January 1, 2000 00:00:00
```

3. Getting current date and time:

```JavaScript
let currentDate = new Date();
console.log(currentDate.getFullYear()); // Output: current year
console.log(currentDate.getMonth()); // Output: current month
(0-11)
console.log(currentDate.getDate()); // Output: current date
(1-31)
console.log(currentDate.getHours()); // Output: current hour
(0-23)
console.log(currentDate.getMinutes()); // Output: current minutes
(0-59)
```

```javascript
console.log(currentDate.getSeconds()); // Output: current seconds
(0-59)
```

4. Setting the date and time:

```javascript
let currentDate = new Date();
currentDate.setFullYear(2025);
currentDate.setMonth(11);
currentDate.setDate(25);
currentDate.setHours(12);
currentDate.setMinutes(0);
currentDate.setSeconds(0);
console.log(currentDate); // Output: December 25, 2025 12:00:00
```

5. Comparing two dates:

```javascript
let date1 = new Date("January 1, 2000 00:00:00");
let date2 = new Date("January 1, 2000 00:00:01");
console.log(date1 < date2); // Output: true
```

6. Formatting a date:

```javascript
let currentDate = new Date();
let options = { weekday: 'long', year: 'numeric', month: 'long',
day: 'numeric' };
console.log(currentDate.toLocaleDateString('en-US', options)); //
Output: "Monday, January 24, 2022"
```