



Subject : 2304CS431 – Client Side Scripting using Javascript

Faculty: Prof. Chirag K. Sakhrani

Practical - 14: Working with Date Objects, Math Objects, and User-Defined Objects	
1)	WAP to demonstrate all the methods (get) of date object. (A)
	Program:- <pre>const current = new Date() console.log("current date : " + current) console.log("getFullYear() : " + current.getFullYear()) console.log("getMonth() : " + current.getMonth()) console.log("getDate() : " + current.getDate()) console.log("getDay() : " + current.getDay()) console.log("getHours() : " + current.getHours()) console.log("getMinutes() : " + current.getMinutes()) console.log("getSeconds() : " + current.getSeconds()) console.log("getMilliseconds() : " + current.getMilliseconds()) console.log("getUTCFullYear() : " + current.getUTCFullYear()) console.log("getUTCMonth() : " + current.getUTCMonth()) console.log("getUTCDate() : " + current.getUTCDate()) console.log("getUTCDay() : " + current.getUTCDay()) console.log("getUTCHours() : " + current.getUTCHours()) console.log("getUTCMinutes() : " + current.getUTCMinutes()) console.log("getUTCSeconds() : " + current.getUTCSeconds()) console.log("getUTCMilliseconds() : " + current.getUTCMilliseconds())</pre>
	Output:- <pre>current date : Sat Dec 28 2024 19:39:17 GMT+0530 (India Standard Time) getFullYear() : 2024 getMonth() : 11 getDate() : 28 getDay() : 6 getHours() : 19 getMinutes() : 39 getSeconds() : 17 getMilliseconds() : 480 getUTCFullYear() : 2024 getUTCMonth() : 11 getUTCDate() : 28 getUTCDay() : 6 getUTCHours() : 14 getUTCMinutes() : 9 getUTCSeconds() : 17 getUTCMilliseconds() : 480</pre>
2)	WAP to demonstrate all the methods (set) of date object. (A)
	Program:- <pre>const currentDate = new Date() console.log("current : ", currentDate) currentDate.setFullYear(2005) console.log("setFullYear(2005) : ", currentDate)</pre>



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```
currentDate.setMonth(0)
console.log("setMonth(0) : ", currentDate)
currentDate.setDate(10)
console.log("setDate(10) : ", currentDate)
currentDate.setHours(12)
console.log("setHours(10) : ", currentDate)
currentDate.setMinutes(30)
console.log("setMinutes(30) : ", currentDate)
currentDate.setSeconds(7)
console.log("setSeconds(7) : ", currentDate)
currentDate.setMilliseconds(500)
console.log("setMilliseconds(500) : ", currentDate)
currentDate.setTime(1737060645123)
console.log("setTime(1737060645123) : ", currentDate)
currentDate.setUTCFullYear(2005)
console.log("setUTCFullYear(2005) : ", currentDate)
currentDate.setUTCMonth(0)
console.log("setUTCMonth(0) : ", currentDate)
currentDate.setUTCDate(10)
console.log("setUTCDate(10) : ", currentDate)
currentDate.setUTCHours(12)
console.log("setUTCHours(12) : ", currentDate)
currentDate.setUTCMinutes(30)
console.log("setUTCMinutes(30) : ", currentDate)
currentDate.setUTCSeconds(7)
console.log("setUTCSeconds(7) : ", currentDate)
currentDate.setUTCMilliseconds(800)
console.log("setUTCMilliseconds(800): ", currentDate)
```

Output:-

```
current : Sat Dec 28 2024 19:52:43 GMT+0530 (India Standard Time)
setFullYear(2005) : Wed Dec 28 2005 19:52:43 GMT+0530 (India Standard Time)
setMonth(0) : Fri Jan 28 2005 19:52:43 GMT+0530 (India Standard Time)
```

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	<p> setDate(10) : Mon Jan 10 2005 19:52:43 GMT+0530 (India Standard Time) setHours(10) : Mon Jan 10 2005 12:52:43 GMT+0530 (India Standard Time) setMinutes(30) : Mon Jan 10 2005 12:30:43 GMT+0530 (India Standard Time) setSeconds(7) : Mon Jan 10 2005 12:30:07 GMT+0530 (India Standard Time) setMilliseconds(500) : Mon Jan 10 2005 12:30:07 GMT+0530 (India Standard Time) setTime(1737060645123) : Fri Jan 17 2025 02:20:45 GMT+0530 (India Standard Time) setUTCFullYear(2005) : Mon Jan 17 2005 02:20:45 GMT+0530 (India Standard Time) setUTCMonth(0) : Mon Jan 17 2005 02:20:45 GMT+0530 (India Standard Time) setUTCDate(10) : Tue Jan 11 2005 02:20:45 GMT+0530 (India Standard Time) setUTCHours(12) : Mon Jan 10 2005 18:20:45 GMT+0530 (India Standard Time) setUTCMinutes(30) : Mon Jan 10 2005 18:00:45 GMT+0530 (India Standard Time) setUTCSeconds(7) : Mon Jan 10 2005 18:00:07 GMT+0530 (India Standard Time) setUTCMilliseconds(800) : Mon Jan 10 2005 18:00:07 GMT+0530 (India Standard Time) </p>
3)	<p>WAP to demonstrate various methods of math object. (A)</p>
	<p>Program:-</p> <pre> console.log("Math.abs(-5) : " + Math.abs(-5)) console.log("Math.abs(5) : " + Math.abs(5)) console.log("Math.round(4.5) : " + Math.round(4.5)) console.log("Math.round(4.4) : " + Math.round(4.4)) console.log("Math.ceil(4.2) : " + Math.ceil(4.2)) console.log("Math.ceil(4.7) : " + Math.ceil(4.7)) console.log("Math.floor(4.7) : " + Math.floor(4.7)) console.log("Math.floor(4.2) : " + Math.floor(4.2)) console.log("Math.max(1, 2, 3) : " + Math.max(1, 2, 3)) console.log("Math.max(-1, -2, -3) : " + Math.max(-1, -2, -3)) console.log("Math.min(1, 2, 3) : " + Math.min(1, 2, 3)) console.log("Math.min(-1, -2, -3) : " + Math.min(-1, -2, -3)) console.log("Math.random() : " + Math.random()) console.log("Math.pow(2, 10) : " + Math.pow(2, 10)) console.log("Math.sqrt(16) : " + Math.sqrt(16)) console.log("Math.log(10) : " + Math.log(10)) </pre>
	<p>Output:-</p> <pre> Math.abs(-5) : 5 Math.abs(5) : 5 Math.round(4.5) : 5 Math.round(4.4) : 4 Math.ceil(4.2) : 5 Math.ceil(4.7) : 5 Math.floor(4.7) : 4 Math.floor(4.2) : 4 Math.max(1, 2, 3) : 3 Math.max(-1, -2, -3) : -1 Math.min(1, 2, 3) : 1 Math.min(-1, -2, -3) : -3 Math.random() : 0.1625338464444508 Math.pow(2, 10) : 1024 Math.sqrt(16) : 4 Math.log(10) : 2.302585092994046 </pre>



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4)	WAP to demonstrate the use of user defined object. (B)
	<p>Program:-</p> <pre>let person = { firstName: "darshan", lastName: "university", age: 19, fullName: function () { return this.firstName + " " + this.lastName } } console.log("first name : ", person.firstName) console.log("last name : ", person["lastName"]) console.log("age : ", person.age) person.age = 20 console.log("age : ", person.age) console.log("full name : ", person.fullName()) // using function function Person(firstName, lastName, age) { this.firstName = firstName this.lastName = lastName this.age = age this.fullName = function() { return this.firstName + " " + this.lastName } } let person1 = new Person("darshan", "university", 18) console.log("first name : ", person1.firstName) console.log("last name : ", person1["lastName"]) console.log("age : ", person1.age) person1.age = 20 console.log("age : ", person1.age) console.log("full name : ", person1.fullName())</pre>
	<p>Ouput:-</p> <pre>first name : darshan last name : university age : 19 age : 20 full name : darshan university first name : darshan last name : university age : 18 age : 20 full name : darshan university</pre>



Darshan
UNIVERSITY

योग: कर्मसु कोशलम्

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Practical Solution

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