

Day 24



setInterval and setTimeout in JavaScript:

setTimeout: Runs a function once after a given time (delay in milliseconds).

Syntax:

```
setTimeout(function, delay);
```

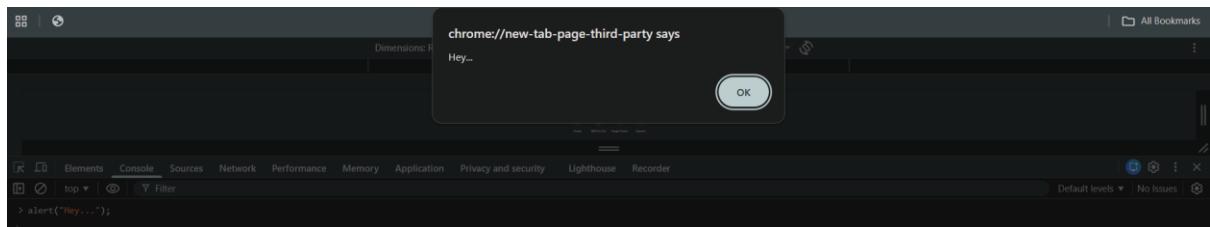
setInterval: Runs a function again and again after a fixed time interval.

Syntax:

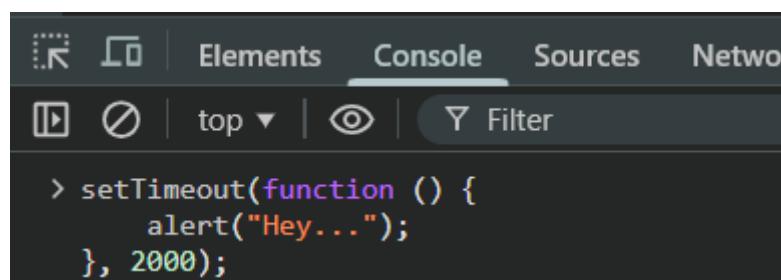
```
setInterval(function, interval);
```

To understand this, let's take a basic example:

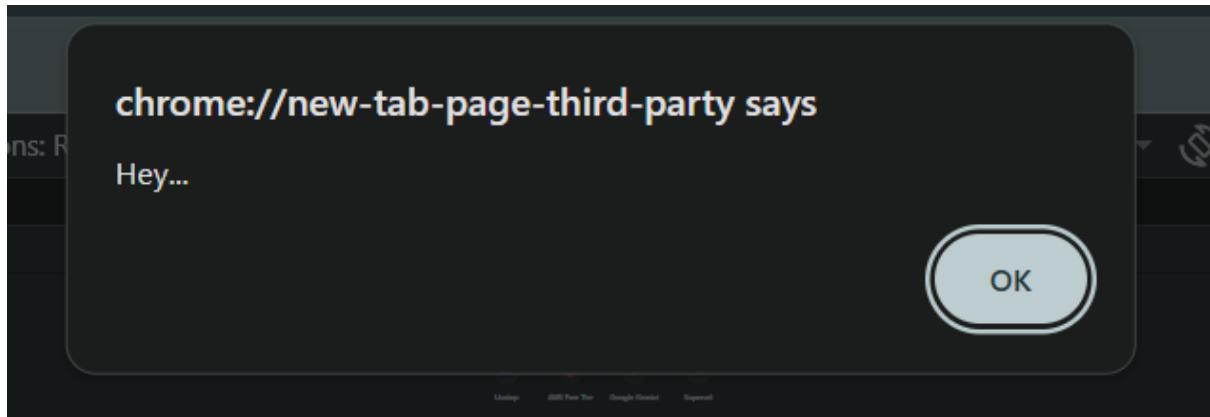
Example: a basic example of creating a alert box



What if we want that this should come 2 seconds later the page loaded, for this we will use setTimeout, as shown below:



Just after 2 seconds:



Now, to get the timer id, we will store the setTimeout in the variable and then print it, as shown below:

```
> let a = setTimeout(function () {
    alert("Hey...");
}, 2000);

console.log(a)
2
```

Output: after 2 seconds



Can we also stop this from happening? Yes, we can do so by using the clearTimeout, as shown below:

```
> let a = setTimeout(function () {
    alert("Hey...");
}, 2000);
clearTimeout(a);
console.log(a)
2
```

Output: no alert box will come this time.

Now, program to take user entry, where user will say yes or no, in order to use the clearTimeout, as shown below:

```
> let a = setTimeout(function () {
    alert("Hey..."); 
}, 2000);
let b = prompt("Do you want to load the alert? (y/n)");
if("n"==b){
    clearTimeout(a);
};
console.log(a);
```

Output:



Example: setInterval()

```
> setInterval(function(){
    alert("Hey Aditya..."); 
}, 2000);
```

Output: same output after every 2 seconds.

