

<!-- ! timing function -->

1. `setTimeout`

Definition:

- The `setTimeout` function is used to execute a function or a block of code once after a specified delay (in milliseconds).

2. `setInterval`

Definition:

- The `setInterval` function is used to repeatedly execute a function or a block of code at specified intervals (in milliseconds).

3. `clearTimeout`

Definition:

- The `clearTimeout` function is used to cancel a timeout that was previously set with `setTimeout`. It prevents the function passed to `setTimeout` from executing.

4. `clearInterval`

Definition:

- The `clearInterval` function is used to cancel a repeated action that was previously set with `setInterval`. It stops the function passed to `setInterval` from executing repeatedly.

```
// !   setTimeout()

console.log('start')
console.log('middle')

setTimeout(()=>{
    console.log('this is setTimeout')
},5000)

console.log('end')

let hello = ()=>{
    console.log('this is hello function')
}

setTimeout(hello,3000)


// ! setInterval()

setInterval(()=>{
    console.log('i am setInterval')
},1000)


// ! clearInterval

let interval = setInterval(()=>{
    console.log('hello')
},1000)

clearInterval(interval)


// ! clearTimeout

let timeout = setTimeout(()=>{
    console.log('hello')
},1000)

clearTimeout(timeout)
```