

Question 1: Explain the setTimeout() and setInterval() functions in JavaScript. How are they used for timing events?

JavaScript can run code **after a delay** or **again and again** using timing functions.

1. setTimeout()

This function runs code **only once** after a specific time.

Syntax:

```
setTimeout(function, timeInMilliseconds);
```

Example:

```
setTimeout(function() {  
    console.log("Hello after 2 seconds");  
}, 2000);
```

Runs only one time after 2 seconds.

2. setInterval()

This function runs code **again and again** after a fixed time gap.

Syntax:

```
setInterval(function, timeInMilliseconds);
```

Example:

```
setInterval(function() {  
    console.log("Repeating every second");  
}, 1000);
```

Runs every 1 second continuously.

Use for Delay an action Timers, clocks, updating values

Question 2: Provide an example of how to use `setTimeout()` to delay an action by 2 seconds.

Simple Example:

```
setTimeout(function() {  
    console.log("This message appears after 2 seconds");  
}, 2000);
```