```
Closure in a loop
for(var i = 0; i <= 3; i++)
{
  setTimeout(function()
    console.log(`after index seconds(s): ${i}`);
  }, i * 1000);
//after index seconds(s): 4
//after index seconds(s): 4
//after index seconds(s): 4
//after index seconds(s): 4
What we wanted to do in the loop is to copy the value of `i` in each
iteration at the time of iteration to display a message after 1, 2, and 3
seconds.
The reason you see the same message after 4 seconds is that the callback
passed to the `setTimeout()` a closure. It remembers the value of `i` from
the last iteration of the loop, which is 4.
In addition, all three closures created by the for-loop share the same
```

global scope access the same value of `i`.

```
Using IIFE Solution
```

```
for (var i = 0; i <= 3; i++) {
  ((i) \Rightarrow \{
    setTimeout(function () {
      console.log(`after index seconds(s): ${i}`);
    }, i * 1000);
  })(i);
}
//after index seconds(s): 0
//after index seconds(s): 1
//after index seconds(s): 2
//after index seconds(s): 3
```

Using let solution

```
for(let i = 0; i <= 3; i++)
{
    setTimeout(function()
    {
       console.log(`after index seconds(s): ${i}`);
    }, i * 1000);
}

//after index seconds(s): 0
//after index seconds(s): 1
//after index seconds(s): 2
//after index seconds(s): 3</pre>
```