JavaScript Loops

A Comprehensive Guide

Learn Code

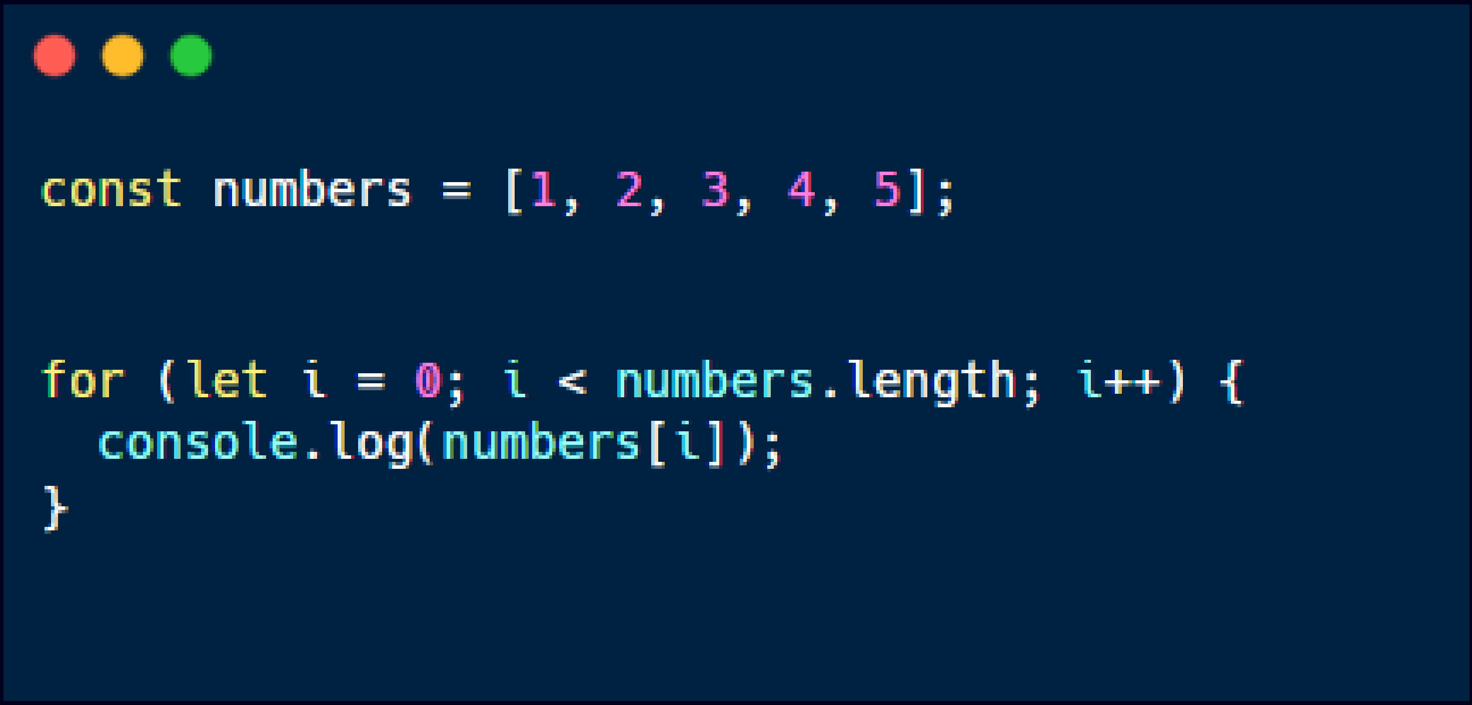
Loops

- for loop
- while loop
- forEach loop
- map
- reduce
- filter
- every
- some

Hafiz M.Ahmed
Software Engineer

for loop

- Your trusty workhorse for iterating through arrays and performing repetitive tasks.



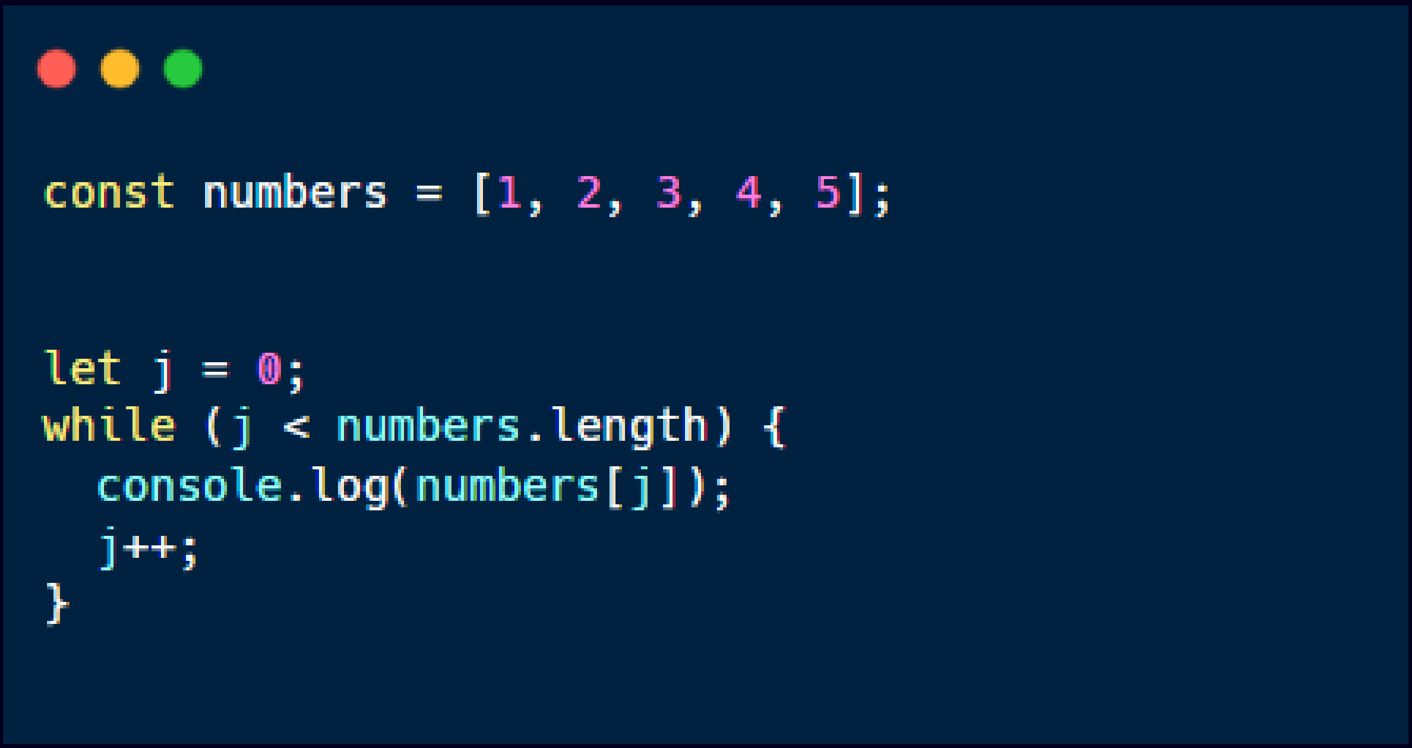
```
const numbers = [1, 2, 3, 4, 5];


for (let i = 0; i < numbers.length; i++) {
  console.log(numbers[i]);
}
```

Hafiz M.Ahmed
Software Engineer

while loop

- Great for looping until a condition is met or becoming false



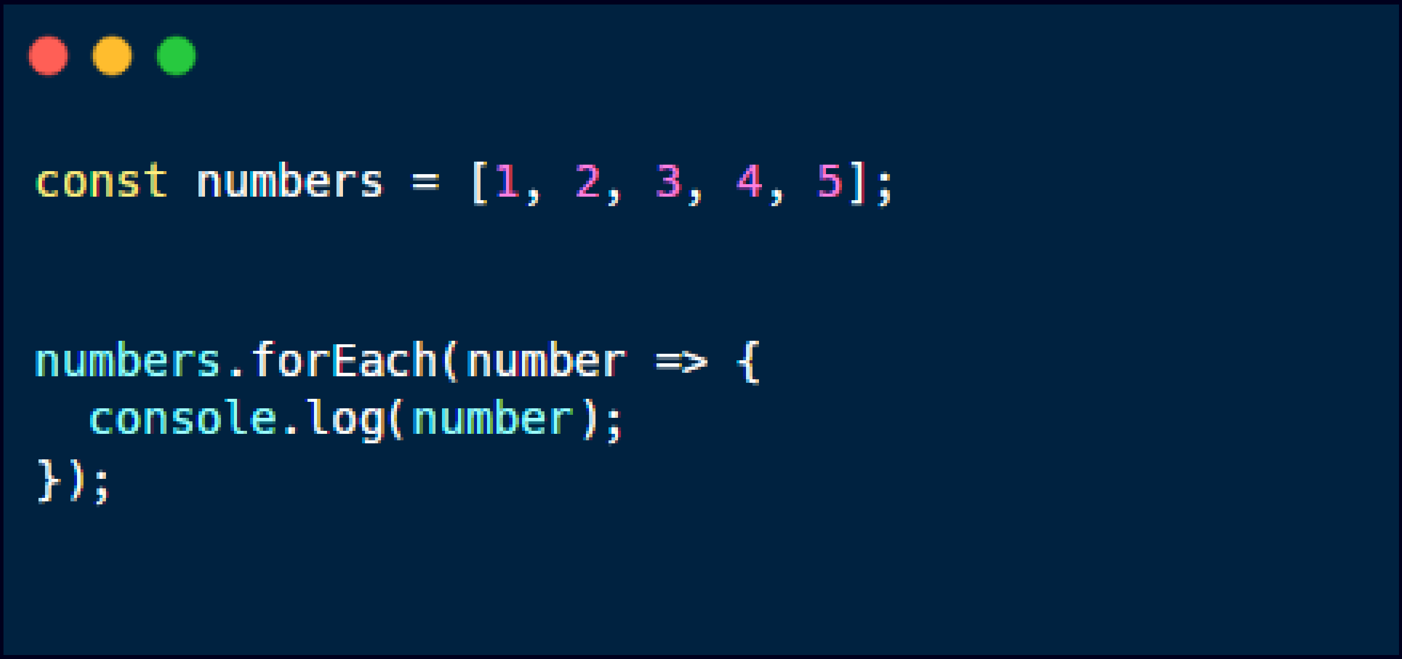
```
const numbers = [1, 2, 3, 4, 5];


let j = 0;
while (j < numbers.length) {
  console.log(numbers[j]);
  j++;
}
```

Hafiz M.Ahmed
Software Engineer

forEach loop

- The elegant way to iterate through arrays, making your code cleaner and more readable.



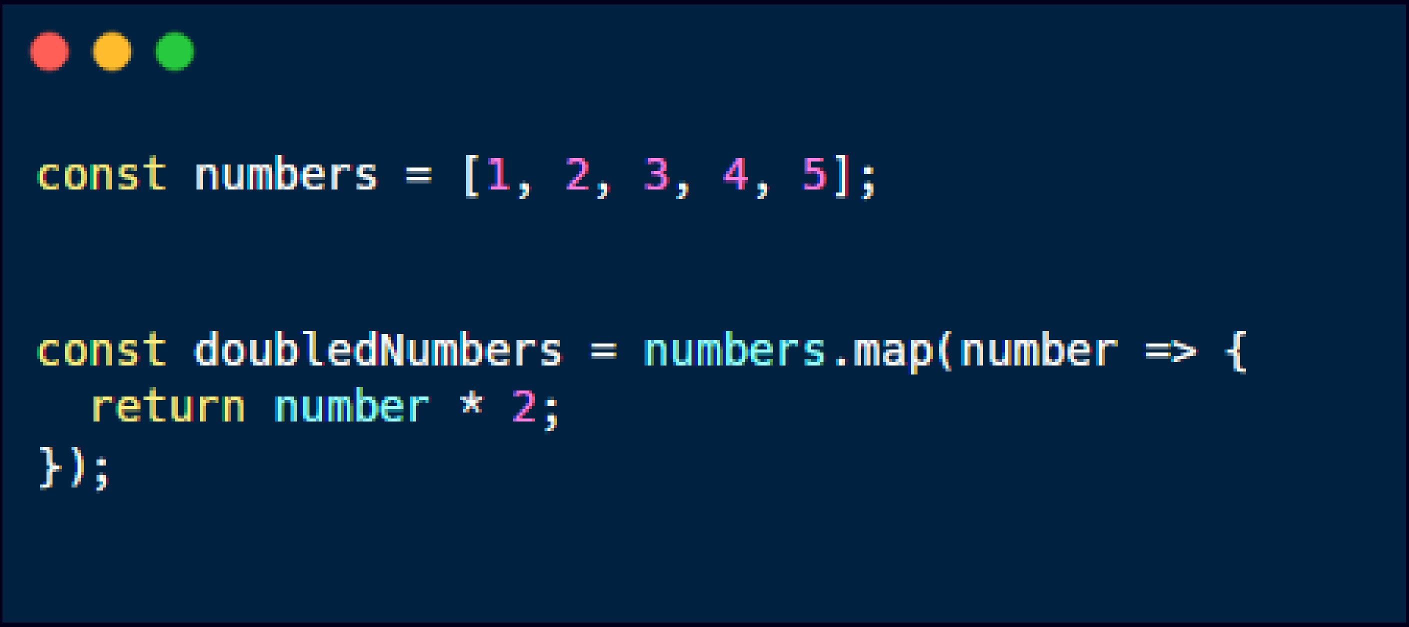
```javascript
const numbers = [1, 2, 3, 4, 5];


numbers.forEach(number => {
  console.log(number);
});
```

Hafiz M.Ahmed
Software Engineer

map

- Transforming arrays with ease and creating brand new arrays.



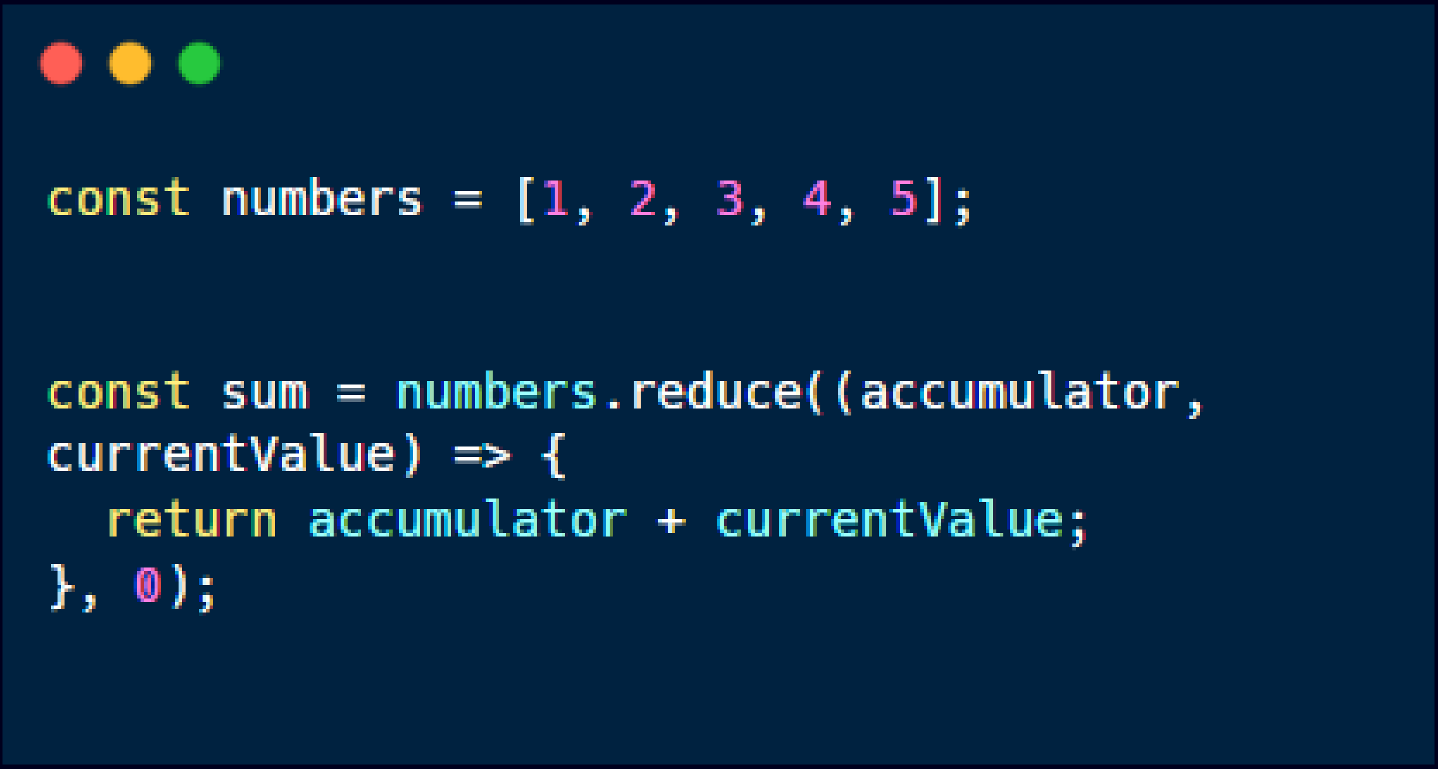
```
const numbers = [1, 2, 3, 4, 5];


const doubledNumbers = numbers.map(number => {
  return number * 2;
});
```

Hafiz M.Ahmed
Software Engineer

reduce

- Your buddy for aggregating values and producing a single result



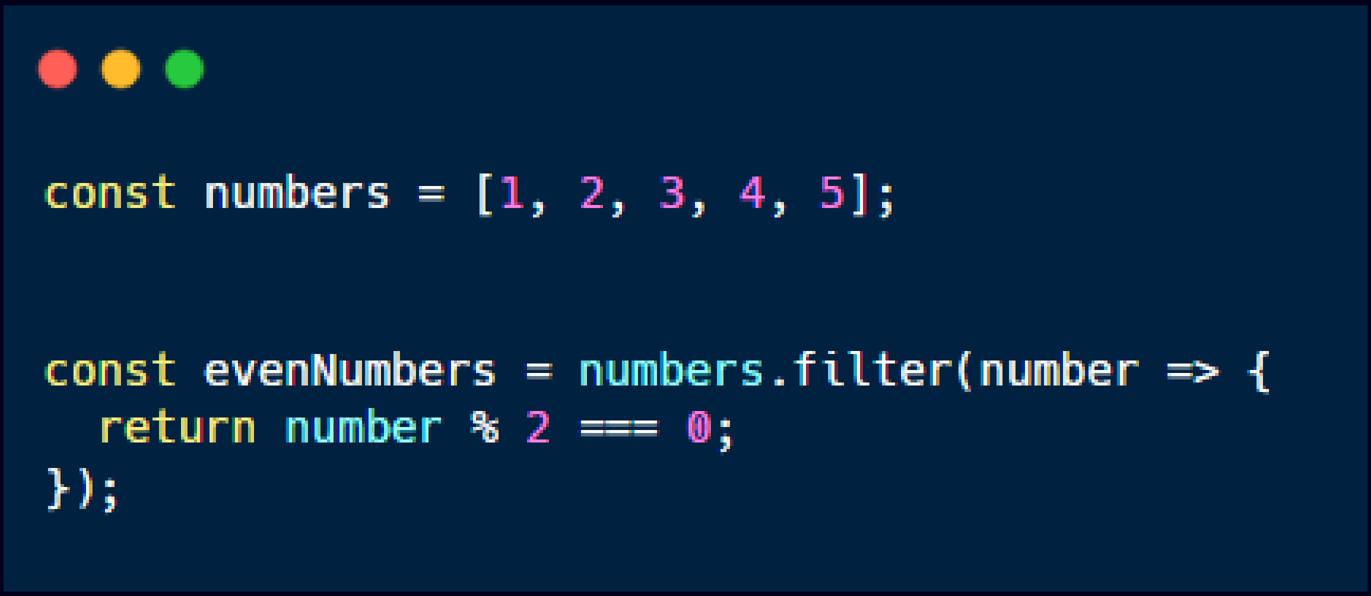
```
const numbers = [1, 2, 3, 4, 5];


const sum = numbers.reduce((accumulator,
currentValue) => {
  return accumulator + currentValue;
}, 0);
```

Hafiz M.Ahmed
Software Engineer

filter

- Filtering out elements that meet your criteria, leaving only the best!

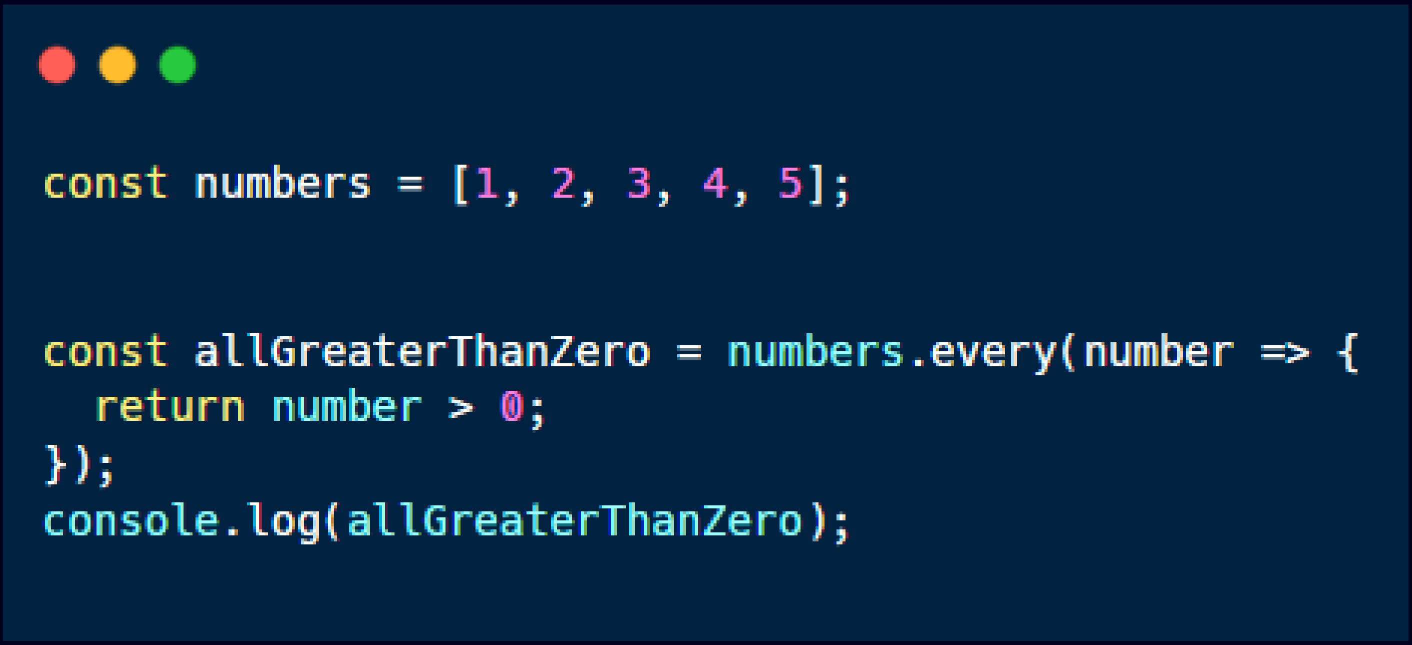


```
const numbers = [1, 2, 3, 4, 5];


const evenNumbers = numbers.filter(number => {
  return number % 2 === 0;
});
```

every

- Checking if all elements in an array meet a condition - perfect for validations!



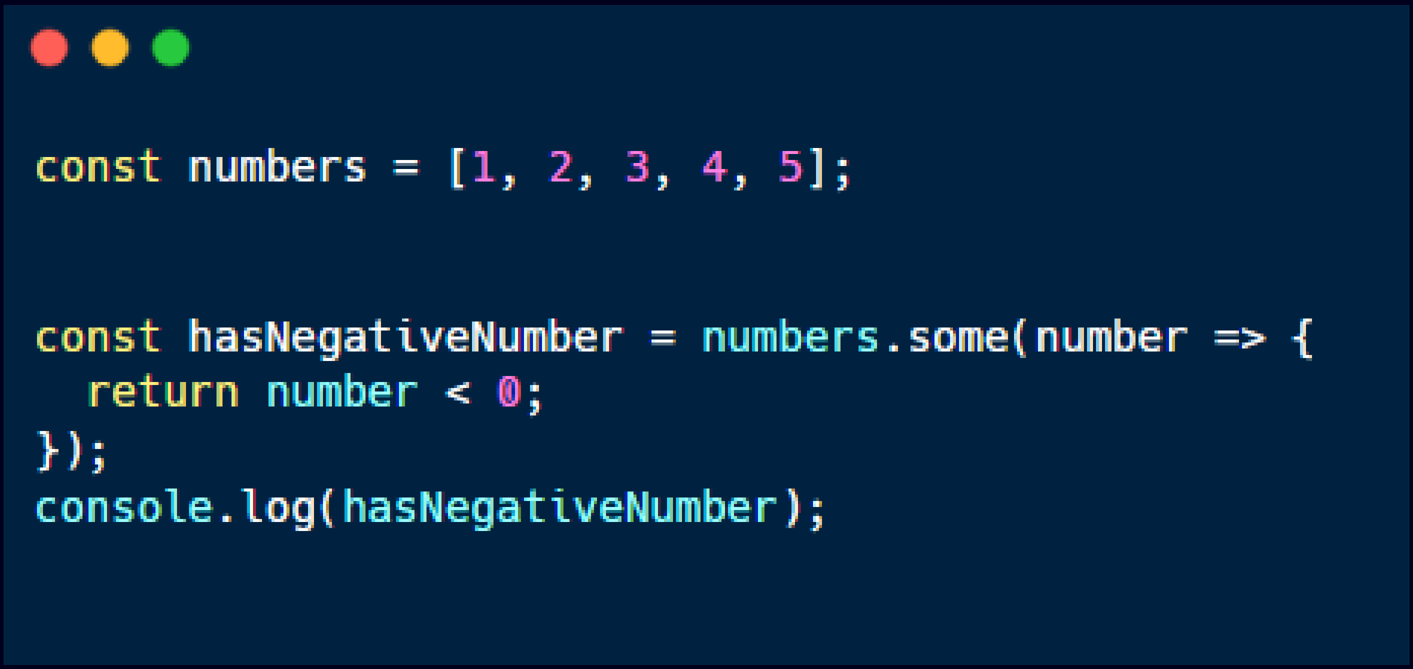
```javascript
const numbers = [1, 2, 3, 4, 5];


const allGreaterThanZero = numbers.every(number => {
  return number > 0;
});
console.log(allGreaterThanZero);
```

Hafiz M.Ahmed
Software Engineer

some

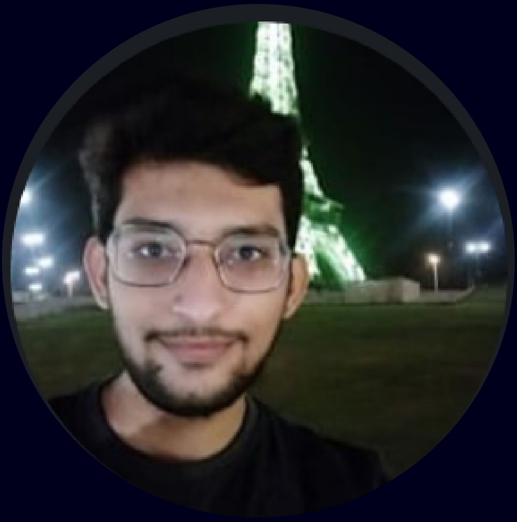
- etermining if at least one element in an array satisfies a condition.



```
const numbers = [1, 2, 3, 4, 5];


const hasNegativeNumber = numbers.some(number => {
  return number < 0;
});
console.log(hasNegativeNumber);
```

Hafiz M.Ahmed
Software Engineer



Hafiz M.Ahmed

Did you find it useful?

Share your thoughts.