

MUHAMMAD OWAIS

Exploring JavaScript Map, Filter, and Reduce!

JS



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THE CARTOGRAPHER'S GUIDE - MAP

Our first stop on this adventure is the land of Map. Imagine it as your personal cartographer, mapping out new territories within your arrays. With Map, you can transform each element of an array without altering the original data. It's like having a magical pen that redraws the world according to your specifications.

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

const mappedArray = originalArray.map(item => item * 2);

console.log(mappedArray); // Output: [2, 4, 6, 8, 10]
```



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Hold UP!!

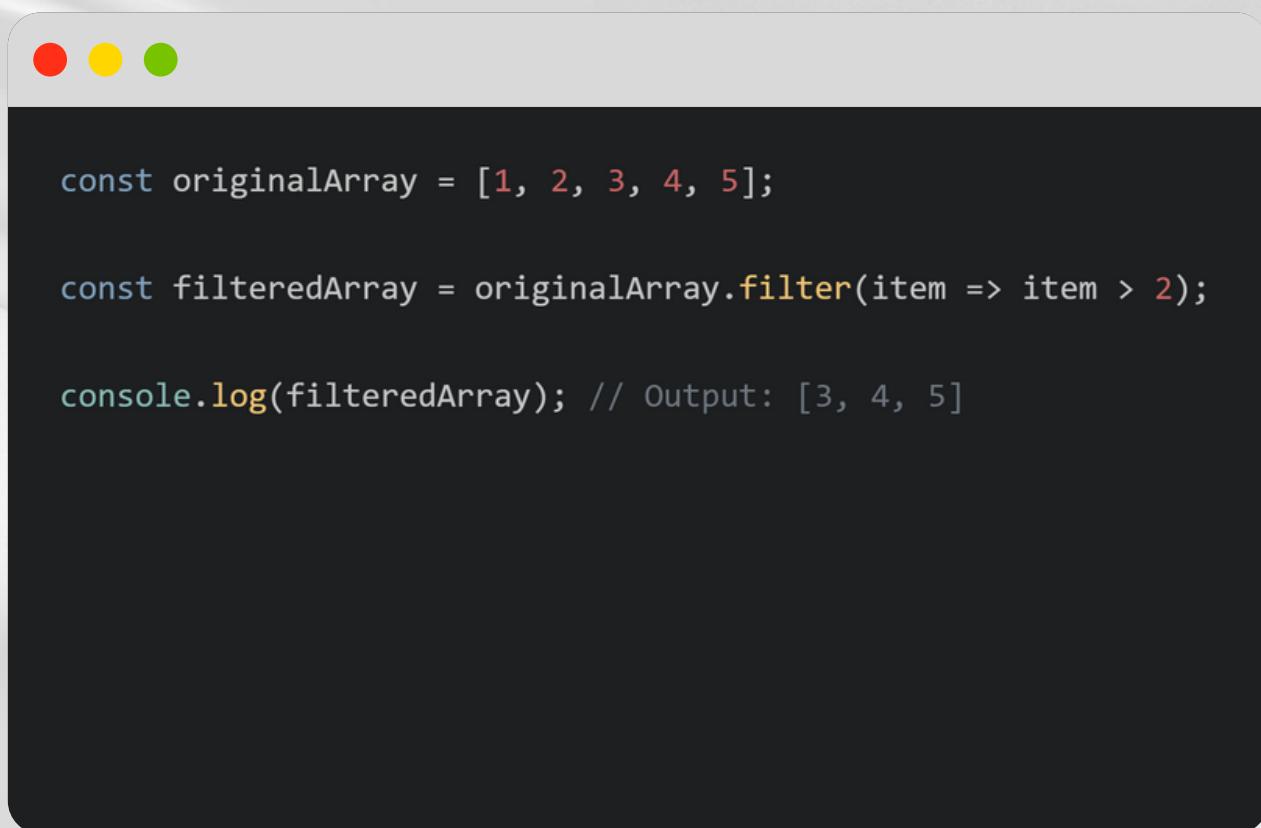
A Short Intro About ME:

Hey there! My name is Owais, a tech Fan with a creative twist. I'm a friendly neighborhood Full-Stack Development , Graphic & UI/UX Designing , and Copywriting. From coding sleek websites to designing eye-catching visuals and crafting compelling content, I'm here to make your digital dreams a reality. Let's create something awesome together!



THE GATEKEEPER'S ARSENAL - FILTER

Next on our journey is the realm of Filter, the gatekeeper that sifts through your array, allowing only the chosen ones to pass. It's perfect for creating a new array with elements that meet specific criteria. Picture it as a vigilant sentry, only permitting the worthy to proceed.



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

const filteredArray = originalArray.filter(item => item > 2);

console.log(filteredArray); // Output: [3, 4, 5]
```



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THE ALCHEMIST'S ELIXIR – REDUCE

Our final destination is the workshop of Reduce, the alchemist capable of distilling your array into a single, glorious value. It's the method that orchestrates the grand symphony of your data, bringing it all together in harmony.

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

const reducedValue = originalArray.reduce((accumulator, currentValue) => accumulator + currentValue,
  0);

console.log(reducedValue); // Output: 15
```



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THE GRAND FINALE – FUNCTIONALITY

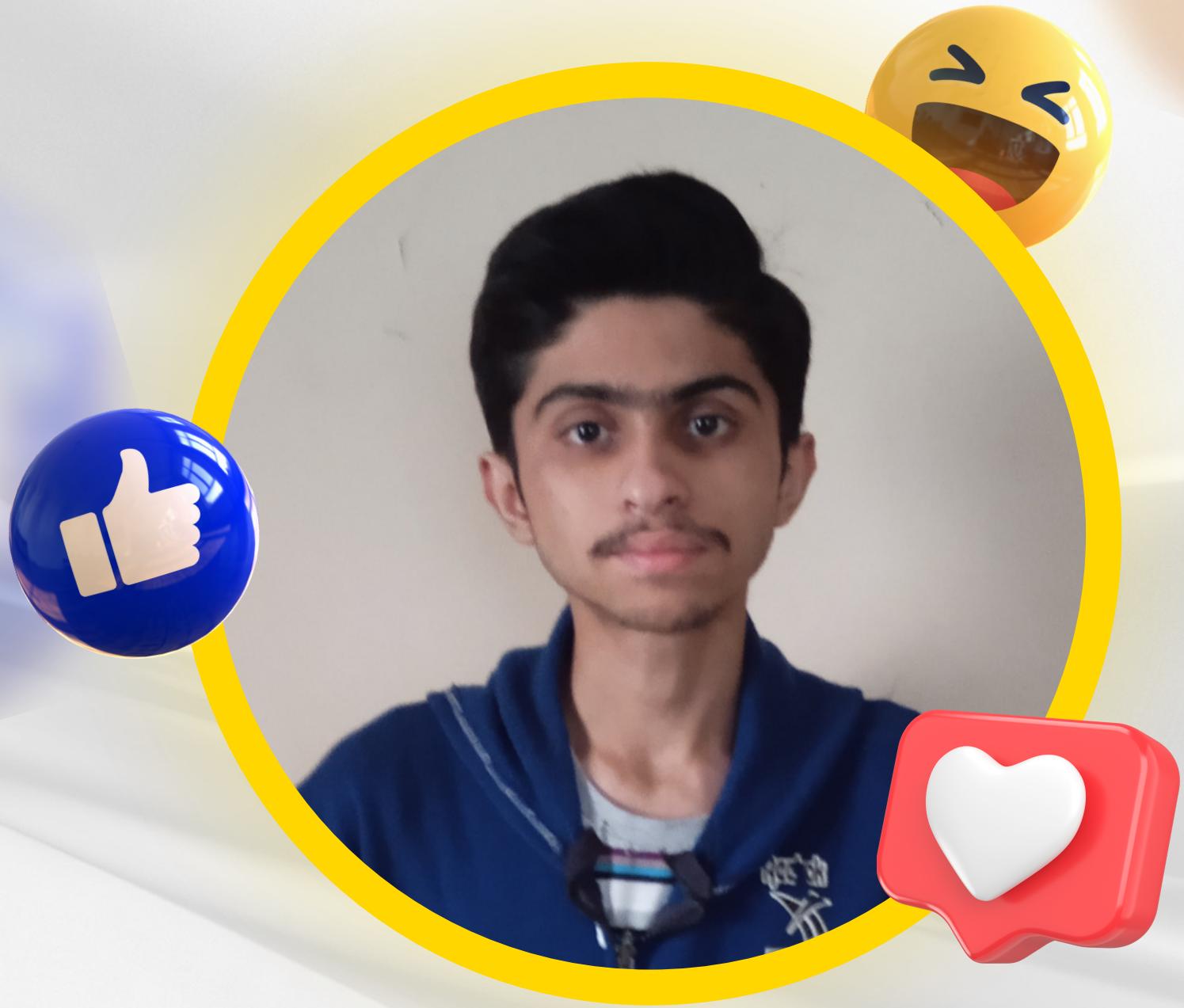
As we conclude our expedition, it's crucial to recognize the synergy that arises when these three titans – Map, Filter, and Reduce – join forces. Through well-crafted combinations, you can sculpt your data with the precision of a master craftsman.

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

const finalResult = originalArray
  .map(item => item * 2)
  .filter(item => item > 5)
  .reduce((accumulator, currentValue) => accumulator + currentValue, 0);

console.log(finalResult); // Output: 18
```





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