MOST ASKED

JS

INTERVIEW QUESTION

You Must know

[Don’t Miss It]

What is CLOSURE ?

- Imagine you have a function within another function, and the inner function can access variables from the outer function even after the outer function has finished executing. That's a closure!
- In simpler terms, a closure is like a backpack that holds onto variables from its surrounding environment, allowing functions to remember and access those variables later.

READ BEFORE SWIPING

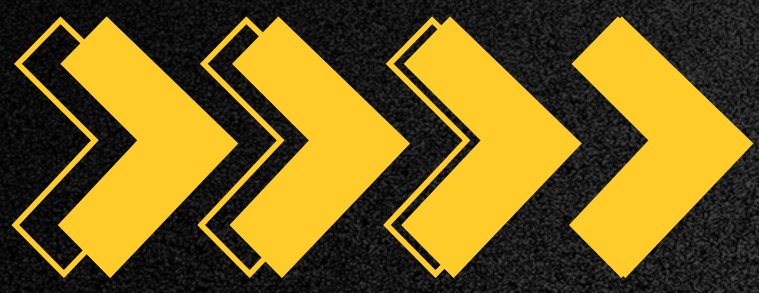
Example

JS

```
function outerFunction() {
  const name = "John";
  return function innerFunction() {
    console.log("Hello, " + name);
  };
}

const greet = outerFunction();
greet(); // Outputs: Hello, John
```

Here, innerFunction is a closure because it retains access to the name variable even after outerFunction has finished executing. It remembers its backpack!



Where are Closures Applied?

Private Variables

JS

```
function counter() {
  let count = 0;
  return function() {
    return ++count;
  };
}

const increment = counter();
console.log(increment());
// Outputs: 1
console.log(increment());
// Outputs: 2
```

Closures enable the creation of private variables in JavaScript, encapsulating data within functions and preventing direct access from outside.

Iterators

JS

```
function createIterator(items) {
  let index = 0;
  return function() {
    return items[index++];
  };
}

const fruitsIterator = createIterator(
        ["apple", "banana", "orange"]);
console.log(fruitsIterator());
// Outputs: apple
console.log(fruitsIterator());
// Outputs: banana
```

Closures can be used to create iterators that maintain their state between calls, facilitating efficient and memory-friendly iteration over data structures.

Bonus Interview Question

What is a closure in JavaScript?

A closure is an inner function that has access to the outer function's variables and parameters. It allows the inner function to access and manipulate the outer function's variables, even after the outer function has returned.

DID YOU FIND IT HELPFUL ?

Share this with a friend who needs it!

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