**ASYNC JS ?**

**Dependency->**

**Result1->result2->result3->4**

[**https://www.freecodecamp.org/news/asynchronous-programming-in-javascript/**](https://www.freecodecamp.org/news/asynchronous-programming-in-javascript/)

[**https://www.geeksforgeeks.org/what-to-understand-callback-and-callback-hell-in-javascript/**](https://www.geeksforgeeks.org/what-to-understand-callback-and-callback-hell-in-javascript/)

// Example of a callback function using arrow function

const fetchData = (callback) => {

// Simulating an asynchronous operation (e.g., fetching data from a server)

setTimeout(() => {

const data = 'Some fetched data';

callback(data);

}, 1000);

}

// Example of callback hell using arrow functions

fetchData((data1) => {

console.log('Data 1:', data1);

fetchData((data2) => {

console.log('Data 2:', data2);

fetchData((data3) => {

console.log('Data 3:', data3);

// And it can continue like this, nesting more callbacks

});

});

});

function foo(b) {

const a = 10;

return a + b + 11;

}

function bar(x) {

const y = 3;

return foo(x \* y);

}

const baz = bar(7); // assigns 42 to baz

// Example of a function that returns a Promise

const fetchData = () => {

return new Promise((resolve, reject) => {

// Simulating an asynchronous operation (e.g., fetching data from a server)

setTimeout(() => {

const data = 'Some fetched data';

// If the operation is successful, resolve the promise with the data

resolve(data);

// If there's an error, reject the promise

// reject(new Error('Failed to fetch data'));

}, 1000);

});

}

// Using the promise

fetchData()

.then(data => {

console.log('Data:', data);

// You can perform further operations with the fetched data here

})

.catch(error => {

console.error('Error:', error.message);

// Handle errors if the promise is rejected

});

[**http://latentflip.com/loupe/?code=ZnVuY3Rpb24gZm9vKGIpIHsNCiAgY29uc3QgYSA9IDEwOw0KICANCnNldFRpbWVvdXQoZnVuY3Rpb24oKSB7DQogIGNvbnNvbGUubG9nKCJGaXJzdCB0aW1lb3V0IGNvbXBsZXRlZCIpOw0KfSwgMjAwMCk7DQogIHJldHVybiBhICsgYiArIDExOw0KfQ0KDQpmdW5jdGlvbiBiYXIoeCkgew0KICBjb25zdCB5ID0gMzsNCiAgcmV0dXJuIGZvbyh4ICogeSk7DQp9DQoNCmNvbnN0IGJheiA9IGJhcig3KTsgLy8gYXNzaWducyA0MiB0byBiYXo%3D!!!PGJ1dHRvbj5DbGljayBtZSE8L2J1dHRvbj4%3D**](http://latentflip.com/loupe/?code=ZnVuY3Rpb24gZm9vKGIpIHsNCiAgY29uc3QgYSA9IDEwOw0KICANCnNldFRpbWVvdXQoZnVuY3Rpb24oKSB7DQogIGNvbnNvbGUubG9nKCJGaXJzdCB0aW1lb3V0IGNvbXBsZXRlZCIpOw0KfSwgMjAwMCk7DQogIHJldHVybiBhICsgYiArIDExOw0KfQ0KDQpmdW5jdGlvbiBiYXIoeCkgew0KICBjb25zdCB5ID0gMzsNCiAgcmV0dXJuIGZvbyh4ICogeSk7DQp9DQoNCmNvbnN0IGJheiA9IGJhcig3KTsgLy8gYXNzaWducyA0MiB0byBiYXo%3D!!!PGJ1dHRvbj5DbGljayBtZSE8L2J1dHRvbj4%3D)

[**https://www.freecodecamp.org/news/javascript-async-await/**](https://www.freecodecamp.org/news/javascript-async-await/)

[**https://www.w3schools.com/js/js\_callback.asp**](https://www.w3schools.com/js/js_callback.asp)