@codebysid

Async/Await in Real Life

One of the important concepts of JavaScript

Consider you are cooking Dinner Today

You have several Dishes to prepare with some extra work like setting the table and all

So to complete all this work you can work sequentially

like first you prepare the Dish1 and then wait until its completely cooked

then you prepare the Dish2 and wait until its completely cooked

then you prepare the Dish3 and again wait for it and so on

and after preparing dishes you set the table and do all the extra work

If you do the work sequentially, one after another then you would spend a lot of time only waiting for the Dishes to complete

but what if you do the work simultaneously ??

lets see

Lets say you start cooking the first dish

and while its cooking you can pour the water or set the Table or prepare for the next Dish

by doing this you will not waste your time waiting for the Dish1 to complete so you can start with next task

this way you can save your time and complete the dinner in less time

In this you are working on multiple tasks together without waiting for previous task to complete

Working on multiple task together without waiting for previous task to finish is known as Asynchronous Programming in Javascript

and Async/Await is the concept which we use to perform Asynchronous Programming

Now to achieve this in Javascript we use Async/Await

Async/Await is a powerful tool for handling Asynchronous Operations. It allows more readable and maintainable code by eliminating the need of callbacks

lets see in code

Async Keyword is used to define Asynchronous function and it always returns a promise

Async/Await Example 💡

```
async function cookDinner() {
    const dish1 = await cookDish1();
    const dish2 = await cookDish2();
    const dish3 = await cookDish3();
}
cookDinner()
setTable()
pourWater()
```

Await keyword is used to wait until the promise {cookDish1( ), cookDish2( ), cookDish3( ) } is resolved

In this setTable() and pourWater() will not wait for cookDinner() to complete because its an asynchronous function assuming setTable() and pourWater() are not async Functions

Async/Await is just an easy syntax to handle Promises instead of .then( ) because .then( ) becomes hard to understand

also Async/Await works with Promises so make sure to understand Promises before Async/Await

Save this ,
So you don't Forget