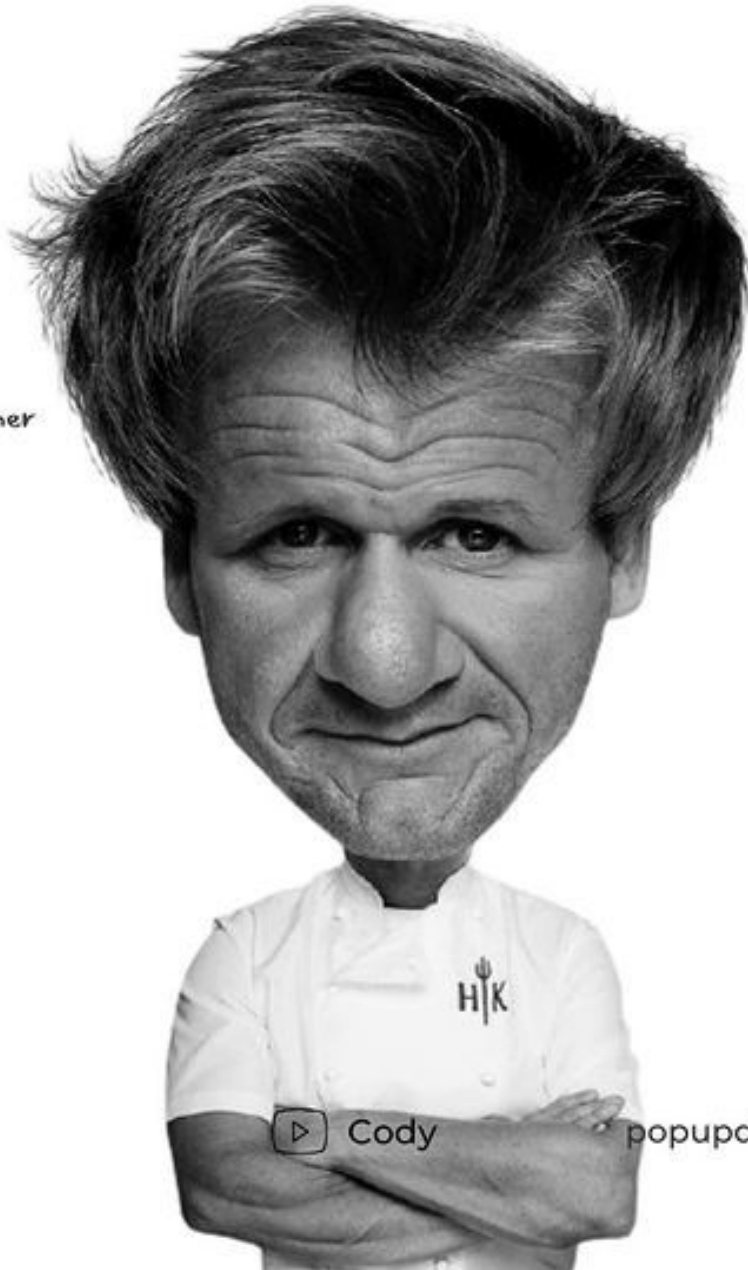




WHAT IS ASYNCHRONOUS PROGRAMMING

📷 @codechips
Art Credit : serkanyener



@codechips



Cody

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Lets say you want to cook **Pasta**

You can prepare it in 2 possible ways

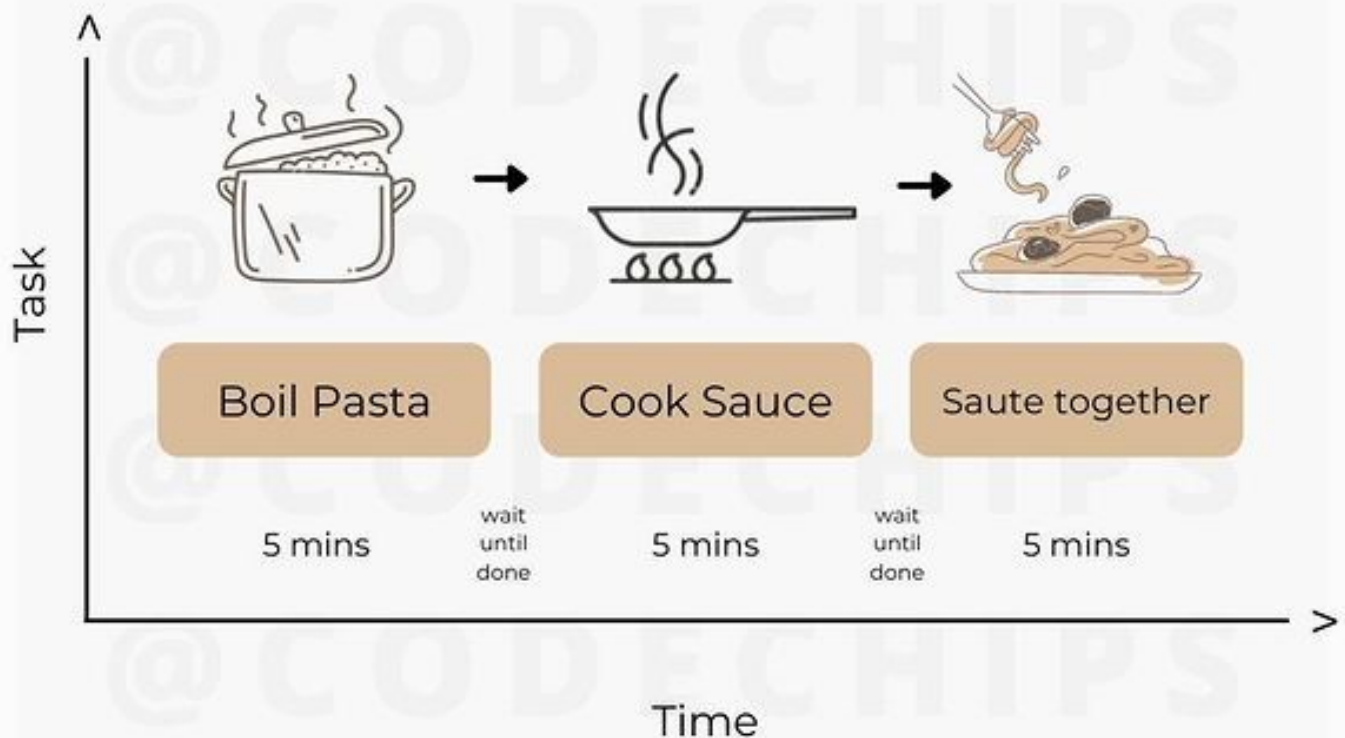


don't worry it will eventually be related to coding
you are in the right place



Synchronous Way

In synchronous operations tasks are performed one at a time and only when one is completed, the following is unblocked.

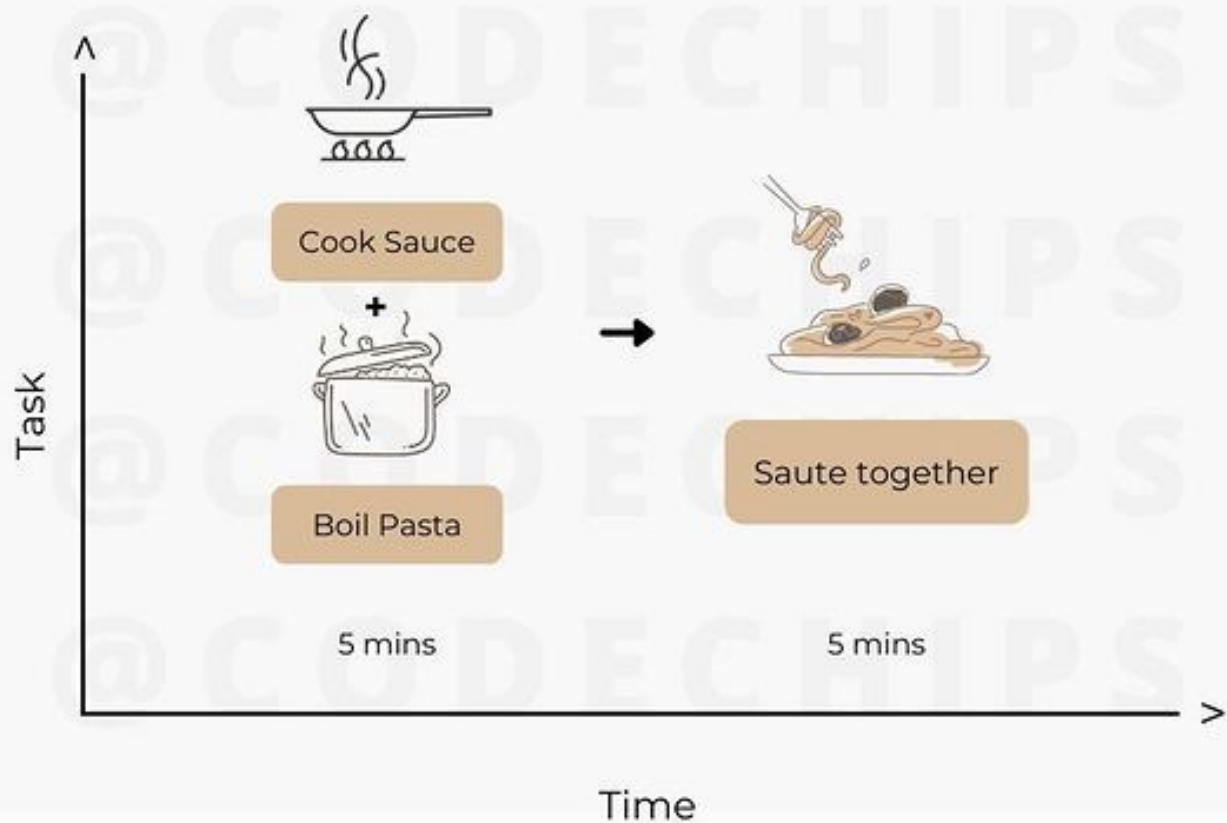




Asynchronous Way

Why wait until Pasta is boiling ?
Let's prepare the sauce simultaneously

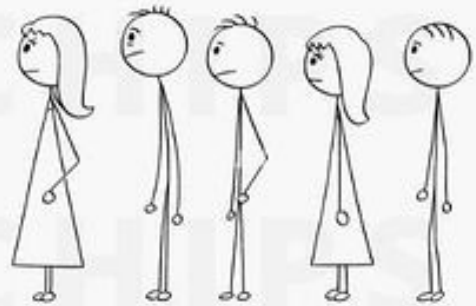
Here you can move to another task before the previous one finishes. making multiple requests simultaneously, in a much shorter period of time without blocking the entire operation





Simply put it as

In synchronous operations tasks are performed in a **sequence**



In asynchronous operations you can move to **another** task before the previous one finishes





Why use Asynchronous Programming ?

Responsive UI

The UI must not freeze



Background

Helps runs process
in the background

Efficiency

help to scale and make best
use of the resources available



Where is it used ?

making API calls

writing/reading to a
file or database

calling hardware
like printers

complex lengthy
calculations

looping through
thousands of objects

