**Sync/Async**

**Sync:-**

* Synchronous or blocking statement
* In this the first second line needs to wait till the first line execution completes
* Example: a waiter serving in a restaurant, here the waiter is specifically assigned to a particular table and takes the order and waits till the order is completed and then moves on to the other table

console.log("before")

console.log(getuser(1)) //here we get result as undefined cause the setTimeout is executed after 2sec

console.log("after")

function getuser(id){

    setTimeout(()=>{

        return({id:id,name:"jagan"})

    },2000)

**Async:-**

* Here a waiter takes the order and simultaneously takes the order from the other table and doesn’t wait for the order to be completed this is async.
* In other words, a program executes thread moves from first line and when there is a setTimeout() which is an async method it doesn’t wait for the execution to be completed thread moves on to the next line and when async function is success then result of it is displayed.