**Day 5: 2-07-2025**

**Synchronous and Asynchronous communication**

Synchronous : it will execute set of statement one by one sequentially.

Synchronous statement

console.log(“1st statement”);

console.log(“2nd  statement”);

console.log(“3rd statement”);

function call

fun1()

fun2()

fun3();

Asynchronous : it will execute set of statement independently

Asynchronous statement

console.log(“1st statement”); Asynchronous

console.log(“2nd  statement”); Asynchronous

console.log(“3rd statement”); Asynchronous

function call

fun1()

fun2()

fun3();

synchronous communication

req1------------🡪

req2----------🡪

req3---------🡪

asynchronous communication

req1------------🡪

req2----------🡪

req3---------🡪

Client Server

AJAX : Asynchronous JavaScript and Xml

XMLHttpRequest

ActiveXObject

Few pre -defined function part of window object which help to do asynchronous task on client side.

setTimeout(callbackfuntion,time)

setInterval(callbackfucntion,time)

clearInterval()

**Promise:** Promise is a pre defined object part of JS which help to handle asynchronous event of data of any type(number, string, object, json type etc).

Promise can be resolved or rejected or pending (not execute or rejected)

If promise resolve it will call then() function. If promise rejected catch get call.

**fetch() :** fetch() is a pre defined function which help to consume Rest API develop using any language. Fetch() function type if promise object.

when it return promise to handle the promise we need to use then() or catch(). If promise resolve then call else catch call.

fetch(URL).then().catch();

**Bootstrap** Bootstrap is an open source CSS web framework. Which provided lot of pre defined class selector base upon the Dom or html elements. Bootstrap is an first responsive web css framework.

**Grid layout** : Grid layout help us to arrange the html content in row and column format.

Grid layout use row concept each row by default divided into 12 columns.