**Types of Modules in Node.js**

1. **Built-in Modules** – Provided by Node.js (e.g., fs, os, http).
2. **Custom Modules** – Files you create and export in your project.
3. **Third-Party Modules** – Installed via npm (e.g., express, lodash).

const fs = require('fs');

fs.readFile('./code.txt','utf-8',(err,data)=>{ //'utf-8' helps us to get actual data otherwise data returns buffer.

//this is asynchronous

    if (!err) {

        console.log("Content Async:", data) //returns the data if utf-8 passed in readFile argument otherwise it give us buffer.

    }else{

        console.log(err.message);

    }

});

let content = fs.readFileSync('./code.txt','utf-8'); //this is syncronus reading it blocks the execution.

console.log("File Content Sync:",content);

console.log("This should be print after the file content.")

Create module like this and use it in another file

//math.js

let add = (a,b)=>{

    return a+b;

}

function sub(a,b){

    return a-b;

}

module.exports = {add,sub}

//index.js

const {add,sub} = require('./math');

console.log(add(5,10)); //15

console.log(sub(5,10)); //-5

**Third-Party Modules install using npm install pakageName;**

1. **Lodash** makes JavaScript easier by taking the hassle out of working with arrays, numbers, objects, strings, etc.