# Day9

Thursday, May 11, 2023 2:07 PM

## BootStrap = CSS Library , many CSS classes

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#### Node Project -----

npm	Node package manager	
init	To initialize a node project	

npm init	this command creates a package.json in the current folder	
package.json	It is a file written in json format , it has different properties about the project given in key:value pairs	Add a coma in the end and add "type" :"module"

Instance variable	Non static Property of class	Every object will have a different copy of this property
Usage of <b>object</b> or <b>this</b> is compulsary for instance variable		

export default class Product	import Product from "./Product.js"
export class Product	import { Product} from "./Product.js"

export default	ONLY one export default in a file is allowed
export	MANY export in a file are allowed

## We can provide alias in the import statement

Class or function that are export default	import aliasname from "./Product.js"
Class or function that are simple export	import { sayHi as welcome} from "./mylib.js"

### A class can have instance variables and class variables

instance variables	Non static properties and function	call using obj or this	One copy per object
class variables	static properties and functions	call using classname	One copy per class

static function	Non static function
does not get "this"	Gets a "this" implicitly
Call using classname	Call using object
Cannot access non static properties	Can access non static properties

static property	Non static property
Only one copy	Many copies - one copy per object
Access using classname	Access using object

By default all properties and functions are PUBLIC in JS class

To make them **private** precede them with # = private fields can be accessed only within function inside the class . It is undefined outside the class

Encapsulation = Hiding data and making it available through getters and setters

Declaring Properties in a JS class -----

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Writing a Server using express !!!

Express? It is a JS library on server side. It is used to build a web server.

Web server is a program that runs continuously waiting for client request
On request it sends a response to the client and continues waiting.

Request and Responses are created using HTTP

How to get express? npm install express

In the node\_modules folder -- it will add express library

In package.json - express will be added in dependencies

URL

http://localhost:5000/

do ipconfig on cmd you will get IP address <a href="http://192.168.1.53:5000/">http://192.168.1.53:5000/</a>

You get the IP address of your friend's machine fire request to friend's server from your machine

