We are doing server side NODE!!!

- --- create a folder myexpresswebserver
- --- npm init

You get a package.json file in the folder

Package.json is your project descriptor - it is a JSON object that contains the info about your project

--- add the express library to it

npm install express (npm install command is used to install the node libraries from the

It will create a node_modules folder in the current folder

The node_modules folder contains express library and all its dependent libraries

The entry is added in the package.json as dependencies

The lock file is created --- so it keeps track of the exact version used in the project

- We started express web server
- We provided mappings for get requests
- We will set up Router and route modules on the server side

Express uses a route module to define SUB PATHS

For ex direct paths

http:localhost:5000/

http:localhost:5000/data

A sub path would be all paths under /book

http://localhost:5000/book

| http://localhost:5000/book | / |
|-----------------------------------|---------|
| http://localhost:5000/book/add | /add |
| http://localhost:5000/book/change | /change |
| http://localhost:5000/book/change | /delete |

A sub path would be all paths under /math

http://localhost:5000/math

| http://localhost:5000/math | / |
|--------------------------------------|------------|
| http://localhost:5000/math/calc | /calc |
| http://localhost:5000/math/factorial | /factorial |
| | |

To return dynamic html content through express server --- TEMPLATE ENGINES are used for dynamic html generation

Template Engines (expressjs.com)

Lets have a demo of hbs Template Engine !!!

- Install the library for hbs ---- npm install hbs (this will add the library in the node_modules and add it in package.json dependencies)
- 2. Create htmls using the syntax of hbs

```
view folder >> first.hbs , greet.hbs
```

3. in the express server add the views and template engine so that the server knows which template engine is used and where to find its pages

```
app.set('views', './views');
app.set('view engine', 'hbs');
```

4. in the request mapping render the respective pages

```
app.get('/greet/:uname',(req,res)=>{
  let user1 = req.params.uname
  res.render('greet',{user:user1}) //MODEL AND VIEW
})
```

```
Node -----
```

1. Async Await in node -----

async = keyword in node this is used to define async functions

--- async functions are always returning a promise!!

await = keyword in node

This is used to **block** the execution of the aync function till the **Promise resolves** We cannot use await in simple function, it can be used only in async function

