

Lesson 05 Demo 06

Working with Webpack and Modern JavaScript

Objective: To work with Webpack and modern JS

Tools required: Visual Studio Code

Prerequisites: NA

Steps to be followed:

1. Writing a JavaScript program for webpack

2. Executing and verifying the working of webpack

Step 1: Writing a JavaScript program for webpack:

1.1 Execute the following command to check the node version:

node -v

```
• labuser@ubuntu2204:~/Desktop/Demo/Demo 9$ node -v v12.22.9
```

1.2 Create a folder *webpack* and write the following command to create the folder and navigate to the *webpack* directory:

mkdir webpack cd webpack

```
    labuser@ubuntu2204:~/Desktop/Demo/Demo 9$ mkdir webpack
    labuser@ubuntu2204:~/Desktop/Demo/Demo 9$ cd webpack
```

1.3 Initialize a *package.json* by running the following command: **npm init**



Leave all options as default.

```
■ labuser@ubuntu2204:~/Desktop/Demo/Demo 9/webpack$ npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.

See `npm help init` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (webpack)
version: (1.0.0)
description:
entry point: (index.js)
test command:
git repository:
keywords:
author:
license: (ISC)
About to write to /home/labuser/Desktop/Demo/Demo 9/webpack/package.json:
```

1.4 Write the following command to install the webpack Command Line Interface (CLI):

npm install webpack webpack-cli --save-dev

Step 2: Executing and verifying the working of webpack:

Note: Webpack should have an entry point to start building the JavaScript bundle. It will take ./src/index.js as the default entry point.

2.1 Create a folder named *src*. Create a JavaScript file inside the *src* folder named *calculate.js* and add the following code to it:

```
module.exports = {
    sum: function(a,b) {
```



```
return a+b
},
multiply: function(a,b) {
    return a*b
}
```

2.2 Create another JavaScript file named *index.js* and add the following code to it:

```
var tools = require("./calculate");
var value = tools.sum(10,20);
console.log("Value: "+value);
```



2.3 Open package.json and add the following build script:

```
"scripts": {
    "build": "node src/index.js"
}
```



```
| Definition | Package | Started | Deckage | Deckage | Deckage | Started | Deckage | D
```

2.4 Run the build using the following command:

npm run build

```
• labuser@ubuntu2204:~/Desktop/Demo/Demo 9/webpack$ npm run build

> webpack@1.0.0 build
> node src/index.js

Value: 30
```