

## Lesson 05 Demo 07

### Working with Babel

**Objective:** To compile the program in Babel

**Tools required:** Visual Studio Code

**Prerequisites:** NA

Steps to be followed:

1. Writing a program in JavaScript for Babel
2. Executing the program and verifying the implementation of Babel

#### Step 1: Writing a program in JavaScript to verify the implementation of Babel

**Note:** Create a folder named *public*. In the *public* folder create a file named *app.js*.

1.1 Create a folder named **src** and write the following command in the terminal to install babel CLI:

**npm install @babel/cli**

```
labuser@ubuntu2204:~/Desktop/Demo 10/src$ npm install @babel/cli
added 20 packages, and audited 361 packages in 9s
9 packages are looking for funding
  run 'npm fund' for details
8 vulnerabilities (2 low, 6 high)
Some issues need review, and may require choosing
a different dependency.
Run 'npm audit' for details.
labuser@ubuntu2204:~/Desktop/Demo 10/src$
```

1.2 Write the following command to install babel-core modules:

**npm install @babel/core**

```
labuser@ubuntu2204:~/Desktop/Demo 10/src$ npm install @babel/core
added 51 packages, and audited 341 packages in 9s
7 packages are looking for funding
  run `npm fund` for details
8 vulnerabilities (2 low, 6 high)
Some issues need review, and may require choosing
a different dependency.
Run `npm audit` for details.
labuser@ubuntu2204:~/Desktop/Demo 10/src$
```

1.3 Write the following to check if the babel is installed:

**cd ..**

**node\_modules/.bin/babel --version**

```
labuser@ubuntu2204:~/Desktop/Demo 10$ node_modules/.bin/babel --version
6.26.0 (babel-core 6.26.3)
```

1.4 Open **package.json** and add the following build script:

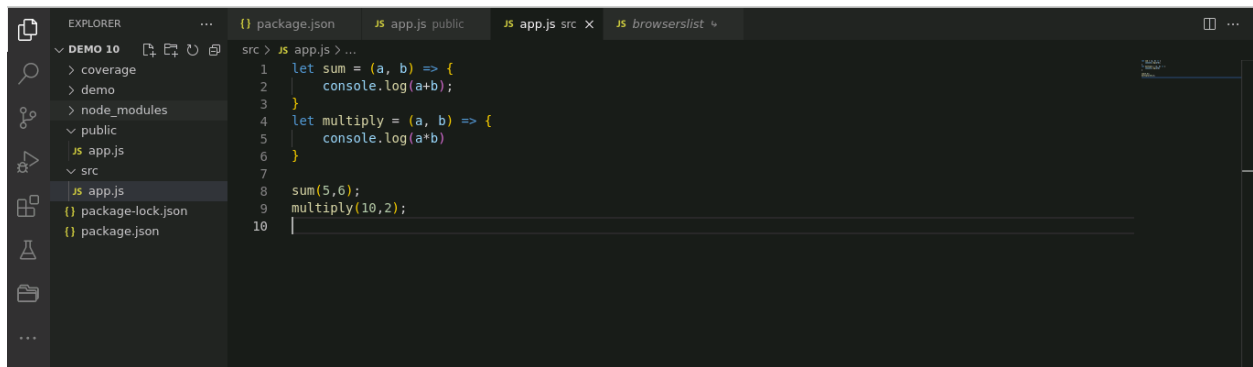
```
"scripts": {
  "build": "node_modules/.bin/babel"
}
```

```
6  "scripts": {
7    "test": "echo \"Error: no test specified\" && exit 1",
8    "version": "babel --version",
9    "build": "node_modules/.bin/babel"
10 }
```

1.5 Create a file named **app.js** under the **src** folder and enter the following code:

```
let sum = (a, b) => {
  console.log(a+b);
}
let multiply = (a, b) => {
  console.log(a*b)
}
```

```
sum(5,6);
multiply(10,2);
```



## Step 2: Executing the program and verifying the implementation of Babel:

2.1 Write the following command to execute the **app.js** file:

**npm run build src/app.js --out-file=public/scripts/app.js --presets=env**

```
labuser@ubuntu2204:~/Desktop/Demo 10$ npm run build src/app.js --out-file=public/scripts/app.js --presets=env
> demo-10@1.0.0 build
> node_modules/.bin/babel "src/app.js"

let sum = (a, b) => {
  console.log(a + b);
};
let multiply = (a, b) => {
  console.log(a * b);
};

sum(5, 6);
multiply(10, 2);
```

2.2 Write the following command to change the directory to the **src** folder:

**cd src**

```
labuser@ubuntu2204:~/Desktop/Demo 10$ cd src
```

2.3 Write the following command to execute the **app.js** file:

**node app.js**

```
labuser@ubuntu2204:~/Desktop/Demo 10/src$ node app.js
11
20
```