

# EXERCISE 9

## Step 1: Create Project Folder

1. Open **Command Prompt**.
2. Navigate to your desired location (e.g., Desktop):
3. `cd Desktop`
4. Create a folder for your project:
5. `mkdir webpack-demo`
6. `cd webpack-demo`

## Step 2: Initialize npm

Run the following command to create a `package.json`:

```
npm init -y
```

This will create a `package.json` file in your folder.

## Step 3: Install Webpack

Install **webpack** and **webpack-cli**:

```
npm install webpack webpack-cli --save-dev
```

## Step 4: Create Project Files

Open **Notepad** and create these files inside the `webpack-demo` folder:

### 1. `index.html`

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Webpack Demo</title>
</head>
<body>
  <h1>Hello Webpack</h1>
  <script src="../dist/bundle.js"></script>
</body>
</html>
```

### 2. `src/index.js`

```
function greet(name) {
  return `Hello, ${name}! Welcome to Webpack.`;
}
```

```
}  
  
console.log(greet("Loganayagi"));
```

## Step 5: Configure Webpack

Create a file named **webpack.config.js** in Notepad:

```
const path = require('path');  
  
module.exports = {  
  entry: './src/index.js',    // starting point  
  output: {  
    filename: 'bundle.js',    // output file  
    path: path.resolve(__dirname, 'dist'),  
  },  
  mode: 'development'        // or 'production'  
};
```

## Step 6: Build with Webpack

In Command Prompt, run:

```
npx webpack
```

This will create a `dist/bundle.js` file containing the bundled JavaScript.

## Step 7: Run Application

1. Open the `index.html` file in your browser (double-click).
2. Open browser **console** (**F12** → **Console tab**).