

**Lesson:**

# **Writting First Hello World using Express**

# Topics to be covered

- Environment Setup
- Hello World

## Environment Setup

Firstly make sure that Node.js is installed in the system by running the following command.

```
node -v
//output - v18.12.0
```

If no version is available then Node must be installed manually on the local machine.

Download link - <https://nodejs.org/en/>

Create a new directory for the project and navigate into it using the command line i.e

```
mkdir hello_world
cd hello_world
```

Now initialize a new Node.js Project and install express using the following command, this will create the package.json file.

Initialise a package and install Express.js.

```
npm init -y
npm install express
```

## Hello World

Create a new file called 'app.js' in the root of the project directory and add the following code

app.js

```
const express = require('express')
const app = express()
const port = 3000

app.get('/', (req, res) => {
  res.send('Hello World!')
})

app.listen(port, () => {
  console.log(`Server up and listening on port ${port}`)
})

// output -
Server up and listening on port 3000
```

### From the above code -

Firstly Express.js is imported and assigned to the variable `express` variable

```
const express = require("express")
```

A new instance of the Express.js application is assigned to `app` variable

```
const app = express()
```

A Port number is defined to listen for incoming requests

```
const port = 3000
```

A route is created for handling GET requests to the root path "/" and sends the response "Hello World!" to the client.

```
app.get('/', (req, res) => {  
  res.send('Hello World!')  
})
```

Starts the server and listens for incoming requests on the specified port. When the server starts up, it logs a message to the console indicating that it is up and running.

```
app.listen(port, () => {  
  console.log(`Server up and listening on port ${port}`)  
})
```

To run the express application by running the following command:

```
node app.js
```

This command will start the server and will listen for incoming requests on the specified port. On visiting <http://localhost:3000> the client will get a response of "Hello World!".