



Step 2: Use `express.json()` response method in `Express.js`

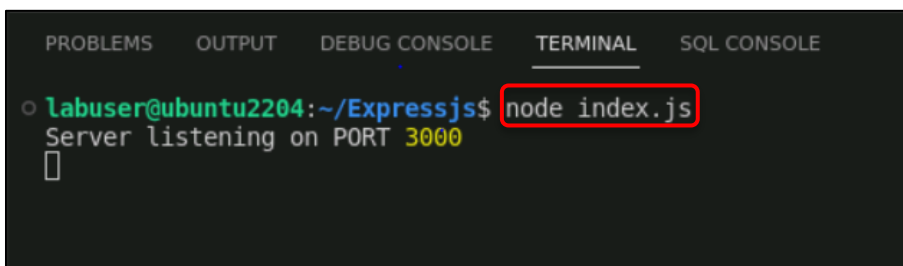
2.1 Open the created Expressjs folder in vs code and write the below code in the `index.js` file:

```
var express = require('express');
var app = express();
var PORT = 3000;
app.use(express.json());
app.post('/', function (req, res) {
  console.log("name : ", req.body.name)
  res.end();
})
app.listen(PORT, function(err){
  if (err) console.log(err);
  console.log("Server listening on PORT", PORT);
});
```

A screenshot of the Visual Studio Code editor. The top bar shows a tab for 'JS index.js'. The editor area displays the following JavaScript code:

```
1 var express = require('express');
2 var app = express();
3 var PORT = 3000;
4 app.use(express.json());
5 app.post('/', function (req, res) {
6   console.log("name : ", req.body.name)
7   res.end();
8 })
9 app.listen(PORT, function(err){
10   if (err) console.log(err);
11   console.log("Server listening on PORT", PORT);
12 });
13
```

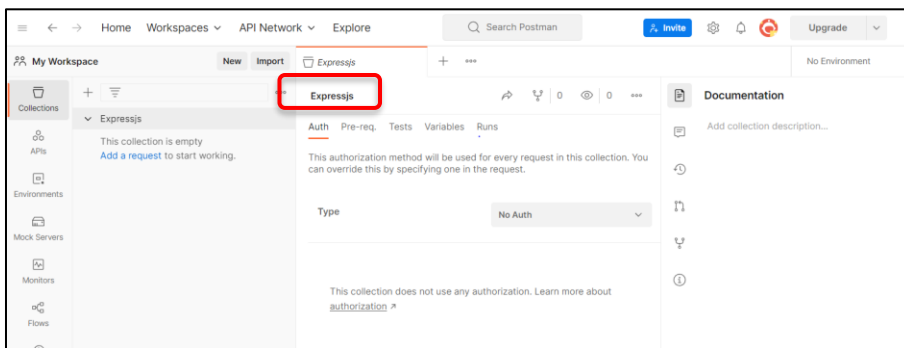
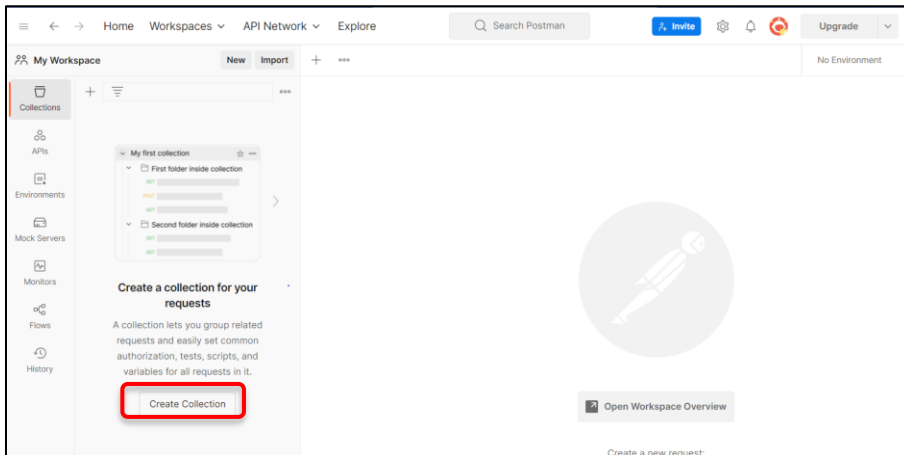
2.2 Run the `node index.js` command in the terminal

A screenshot of the terminal window in VS Code. The terminal shows the command 'node index.js' being executed. The output is 'Server listening on PORT 3000'. The prompt is 'labuser@ubuntu2204:~/Expressjs\$'.

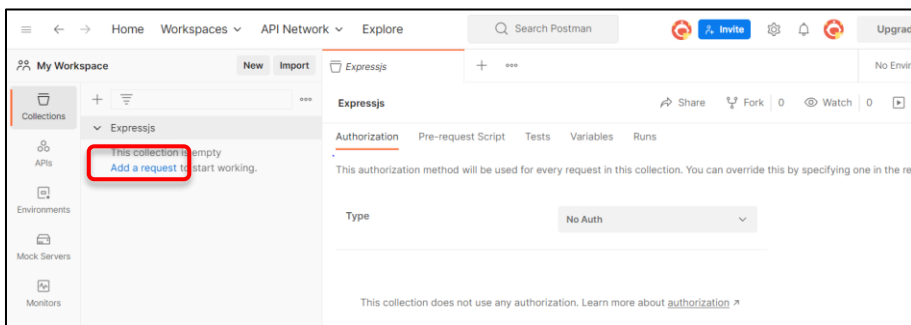
```
labuser@ubuntu2204:~/Expressjs$ node index.js
Server listening on PORT 3000

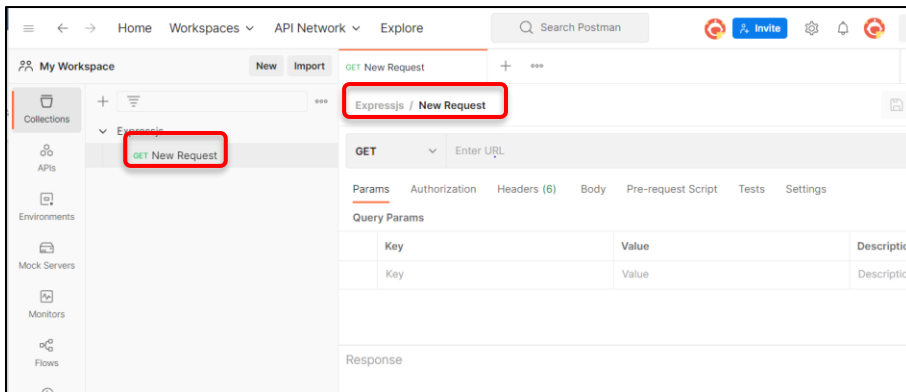
```

2.3 Open Postman, either create an account or skip it for now, and once in the Postman workspace, create a collection for Express.js

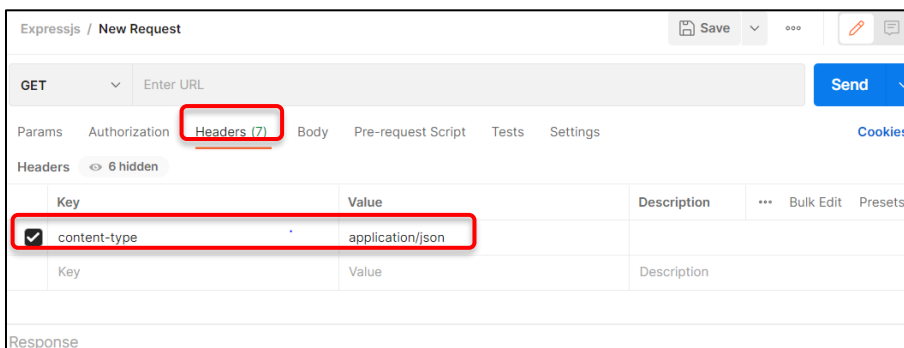


2.4 Add a new request to the collection





2.5 In the new request, navigate to **the Headers** option and write **key- content-type & value - application/json**

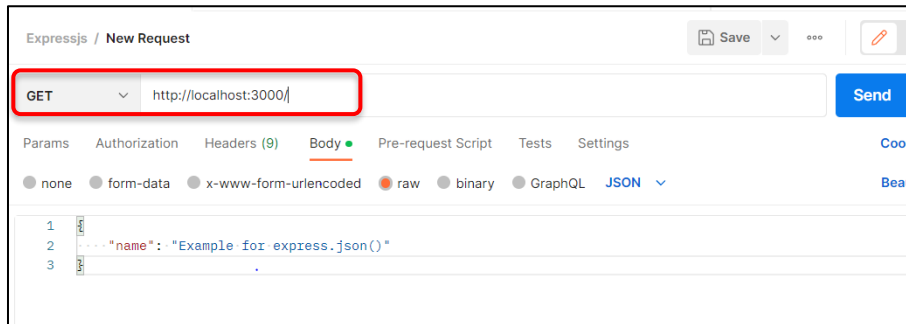


2.6 Navigate to the **Body** section, change the type to **raw**. Upon clicking **Body**, a drop-down menu will appear at the end of that option. From the drop-down menu, select **JSON** format and enter the following lines in the workspace:

```
{
  "name": "Example for express.json()"
}
```



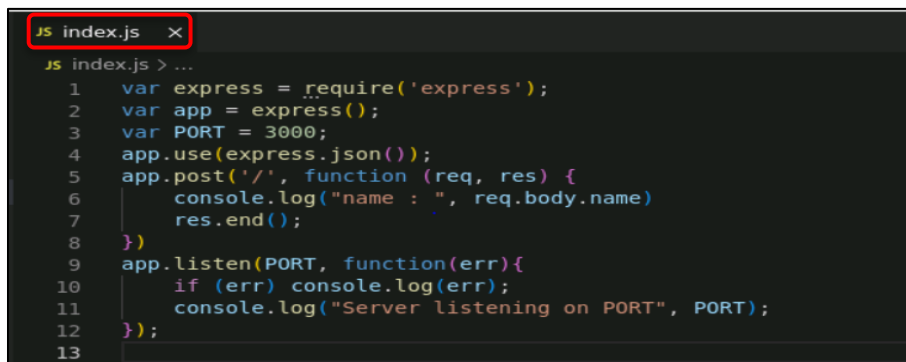
2.7 Initiate a POST request to **http://localhost:3000/** and examine the output in the VSCode terminal where the program is executed



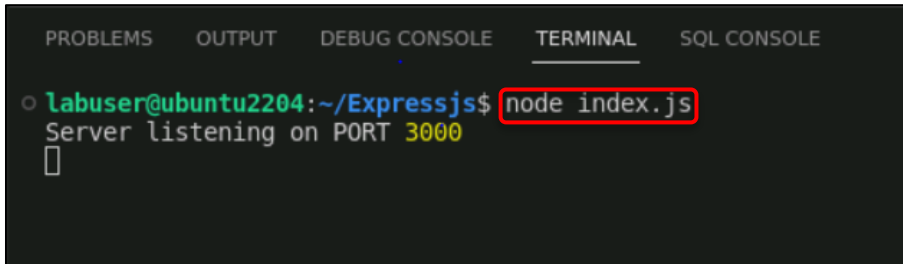
Step 3: Use `express.raw()` response method in Express.js

3.1 Add the following code in the **index.js** file:

```
var express = require('express');
var app = express();
var PORT = 3000;
app.use(express.json());
app.post('/', function (req, res) {
  console.log("name : ", req.body.name)
  res.end();
})
app.listen(PORT, function(err){
  if (err) console.log(err);
  console.log("Server listening on PORT", PORT);
});
```



3.2 Run the **node index.js** command in the terminal



```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL SQL CONSOLE
labuser@ubuntu2204:~/Expressjs$ node index.js
Server listening on PORT 3000

```

3.3 In the new request, navigate to the **Headers** option and write **key- content-type & value - application/ octet-stream**. Also, go to Body and change type to **Body**. After clicking on the Body, at the end of those options, a drop-down menu is present. Select **JSON** format from that and write the below lines in the workspace:

```

{
  "name": "Example of express.raw()"
}

```




```

Params Authorization Headers (9) Body Pre-request Script Tests Settings
none form-data x-www-form-urlencoded raw binary GraphQL Text
1 {
2   "name": "Example of express.raw()"
3 }

```

3.4 Execute a POST request to **http://localhost:3000/** and verify the output in the VSCode terminal where the program is executed



```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL SQL CONSOLE
labuser@ubuntu2204:~/Expressjs$ node index.js
Server listening on PORT 3000
<Buffer 7b 0a 20 20 20 20 22 6e 61 6d 65 22 3a 20 22 45 78 61 6d 70 6c 65 20 6f 66 20 65 78 70 72 65 73 73 2e 6a 73 6f 6e 28 22 0a 7d>

```

Step 4: Use **express.Router()** response method in Express.js

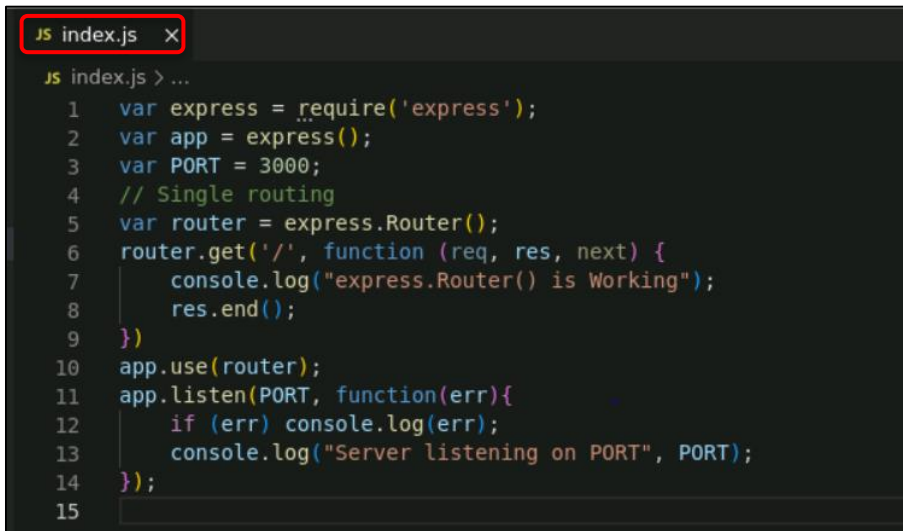
4.1 Add the following code in the **index.js** file

```

var express = require('express');
var app = express();
var PORT = 3000;
// Single routing
var router = express.Router();

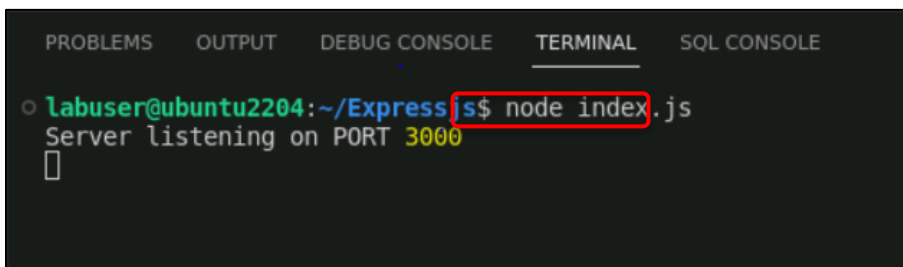
```

```
router.get('/', function (req, res, next) {
  console.log("express.Router() is Working");
  res.end();
})
app.use(router);
app.listen(PORT, function(err){
  if (err) console.log(err);
  console.log("Server listening on PORT", PORT);
});
```



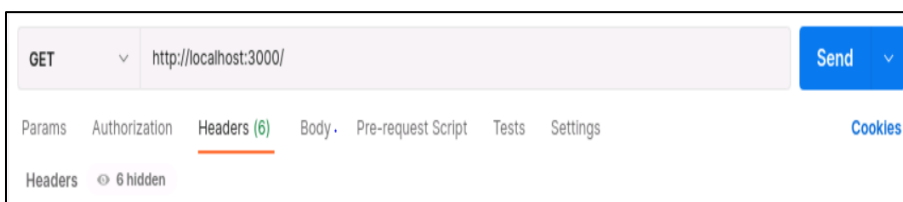
```
JS index.js x
JS index.js > ...
1  var express = require('express');
2  var app = express();
3  var PORT = 3000;
4  // Single routing
5  var router = express.Router();
6  router.get('/', function (req, res, next) {
7    console.log("express.Router() is Working");
8    res.end();
9  })
10 app.use(router);
11 app.listen(PORT, function(err){
12   if (err) console.log(err);
13   console.log("Server listening on PORT", PORT);
14 });
15
```

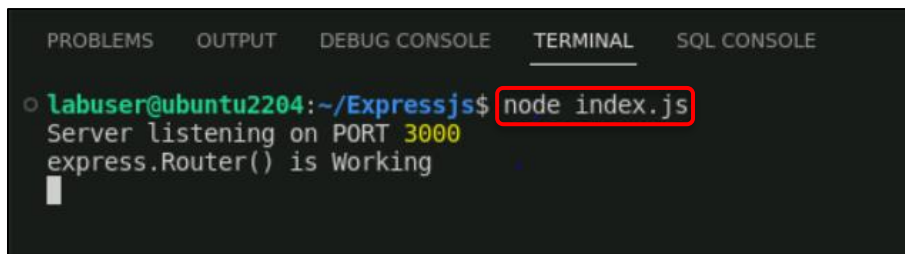
4.2 Run the **node index.js** command in the terminal



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  SQL CONSOLE
labuser@ubuntu2204:~/Express$ node index.js
Server listening on PORT 3000
█
```

4.3 Initiate a GET request to **http://localhost:3000/** and examine the output in the VSCode terminal where the program is executed






```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL SQL CONSOLE
Labuser@ubuntu2204:~/Expressjs$ node index.js
Server listening on PORT 3000
express.Router() is Working
```

Step 5: Use `express.static()` response method in `Express.js`

5.1 Write the following code in the `index.js` file

```
var express = require('express');
var app = express();
var path = require('path');
var PORT = 3000;
// Static Middleware
app.use(express.static(path.join(__dirname, 'public')))
app.get('/', function (req, res, next) {
  res.render('index.ejs');
})
app.listen(PORT, function(err){
  if (err) console.log(err);
  console.log("Server listening on PORT", PORT);
});
```



```
JS index.js x
JS index.js > ...
1 var express = require('express');
2 var app = express();
3 var path = require('path');
4 var PORT = 3000;
5 // Static Middleware
6 app.use(express.static(path.join(__dirname, 'public')))
7 app.get('/', function (req, res, next) {
8   res.render('index.ejs');
9 })
10 app.listen(PORT, function(err){
11   if (err) console.log(err);
12   console.log("Server listening on PORT", PORT);
13 });
14
```


5.2 Run the command below in the terminal to add **ejs** to the project:
npm install ejs

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL SQL CONSOLE
• labuser@ubuntu2204:~/Expressjs$ npm install ej
added 16 packages, and audited 74 packages in 3s

9 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
○ labuser@ubuntu2204:~/Expressjs$

```

5.3 Create a folder named **views**, then create an **index.ejs** file and add the following code in that file:

```

<!DOCTYPE html>
<html>
<head>
  <title>Response Methods</title>
</head>
<body>
<h1>express.static() is working</h1>
</body>
</html>

```

```

EXPLORER
EXPRESSJS
  coverage
  node_modules
  views
    index.ejs
  index.js
  package-lock.json
  package.json

views > index.ejs > ...
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Response Methods</title>
5 </head>
6 <body>
7 <h1>express.static() is working</h1>
8 </body>
9 </html>
10

```

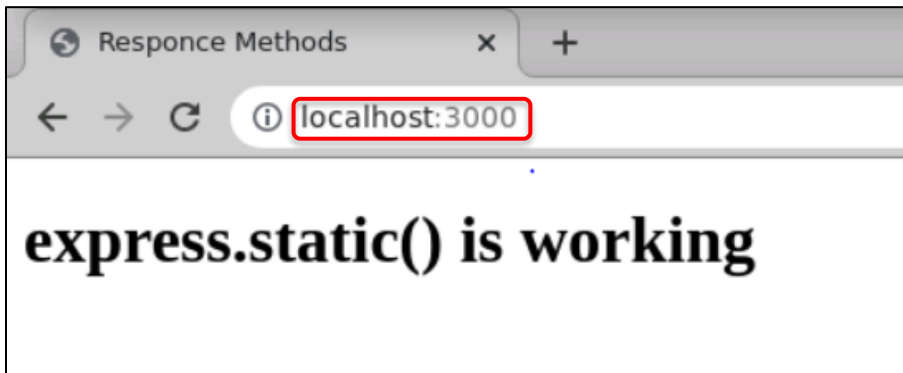
5.4 Run the **node index.js** command in the terminal

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL SQL CONSOLE
○ labuser@ubuntu2204:~/Expressjs$ node index.js
Server listening on PORT 3000

```

5.5 Run <http://localhost:3000> in the browser and check the output



Step 6: Use `express.text()` response method in Express.js

6.1 Open the Expressjs folder in Vscode and write the below code in the **index.js** file:

```
var express = require('express');
var app = express();
var PORT = 3000;

app.use(express.text());

app.post('/', function (req, res) {
  console.log(req.body);
  res.end();
})

app.listen(PORT, function(err){
  if (err) console.log(err);
  console.log("Server listening on PORT", PORT);
});
```

```

JS index.js X
JS index.js > ...
1  var express = require('express');
2  var app = express();
3  var PORT = 3000;
4  app.use(express.text());
5  app.post('/', function (req, res) {
6    console.log(req.body);
7    res.end();
8  })
9  app.listen(PORT, function(err){
10   if (err) console.log(err);
11   console.log("Server listening on PORT", PORT);
12 });
13

```

6.2 Run the **node index.js** command in the terminal.

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  SQL CONSOLE
labuser@ubuntu2204:~/Expressjs$ node index.js
Server listening on PORT 3000

```

6.3 In the new request, navigate to the **Headers** option and write **key- content-type & value - application/ octet-stream**. Also, go to Body and change type to **Body**. After clicking on the Body, at the end of those options, a drop-down menu is present. Select **JSON** format from that and write the below lines in the workspace:

```

{
  "name": "Example of express.text()"
}

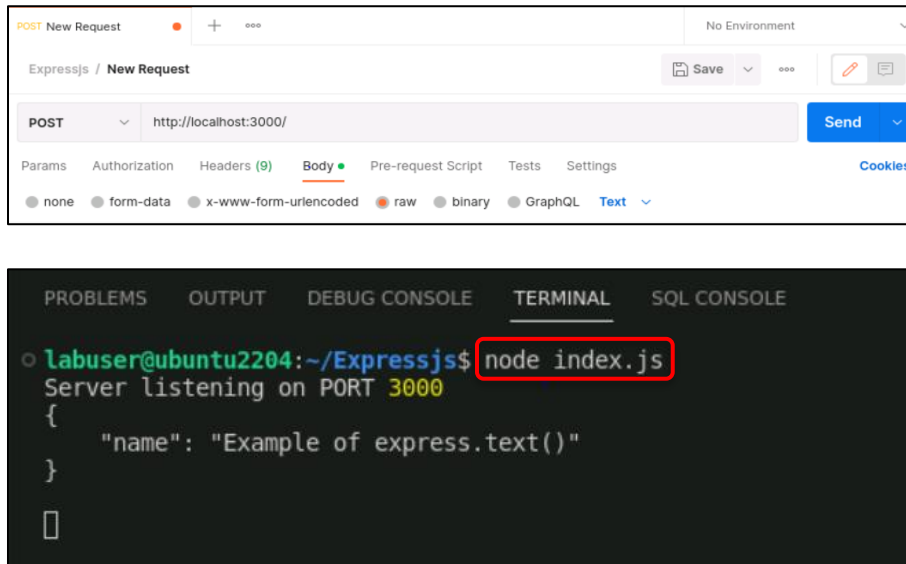
```

```

Params  Authorization  Headers (9)  Body  Pre-request Script  Tests  Settings
none  form-data  x-www-form-urlencoded  raw  binary  GraphQL  JSON
1  {
2    "name": "Example of express.text()"
3  }
4

```

6.4 Execute a POST request to **http://localhost:3000/** and inspect the output in the VSCode terminal where the program is executed



Step 7: Use `express.urlencoded()` response method in Express.js

7.1 Open the Expressjs folder in the Vscode and write the below code in the **index.js** file:

```
var express = require('express');
var app = express();
var PORT = 3000;

app.use(express.urlencoded({extended:false}));

app.post('/', function (req, res) {
  console.log(req.body);
  res.end();
});

app.listen(PORT, function(err){
  if (err) console.log(err);
  console.log("Server listening on PORT", PORT);
});
```

```

JS index.js x
JS index.js > ...
1  var express = require('express');
2  var app = express();
3  var PORT = 3000;
4
5  app.use(express.urlencoded({extended:false}));
6
7  app.post('/', function (req, res) {
8    console.log(req.body);
9    res.end();
10  });
11
12  app.listen(PORT, function(err){
13    if (err) console.log(err);
14    console.log("Server listening on PORT", PORT);
15  });
16

```

7.2 Run the **node index.js** command in the terminal

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  SQL CONSOLE
labuser@ubuntu2204:~/Expressjs$ node index.js
Server listening on PORT 3000

```

7.3 In the new request, navigate to the **Headers** option and write **key- content-type & value - application/ octet-stream**. Also, go to Body and change type to **Body**. After clicking on Body, at the end of those options, a drop-down menu is present. Select **JSON** format from that and write the below lines in the workspace:

```

{
  "name": "Example of express.urlencoded()"
}

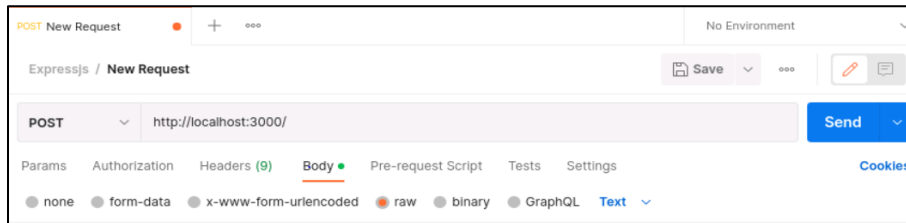
```

```

Params  Authorization  Headers (9)  Body  Pre-request Script  Tests  Settings
● none  ● form-data  ● x-www-form-urlencoded  ● raw  ● binary  ● GraphQL  JSON v
1  {
2    "name": "Example of express.urlencoded()"
3  }
4

```

7.4 Initiate a GET request to **http://localhost:3000/** and examine the output in the VSCode terminal where the program is executed



By following these steps, you have successfully implemented diverse response methods in Express.js for efficient handling of data and requests.