

Node.js Assessment

How to Run the Project

1. Clone or Extract the Project

- If the project is in a zip file, extract it.
- Otherwise, clone the repository or copy the folder to your local system.

2. Run the Node.js HTTP Server

Steps:

1. Open a terminal and navigate to the project directory:

```
cd nodejs-assessment
```

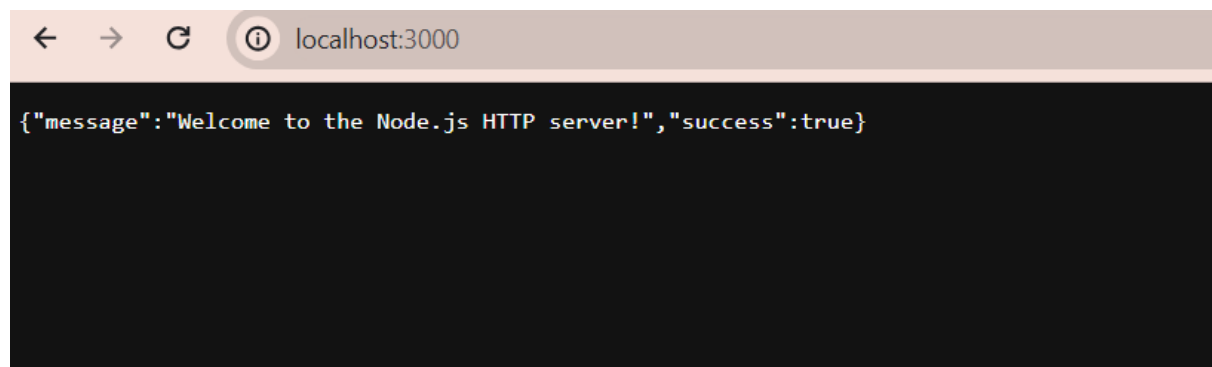
2. Start the server:

```
node server.js
```

3. Open your browser and go to:

```
http://localhost:3000
```

4. You should see the following JSON response:



3. Run JavaScript Mathematical Operations

Steps:

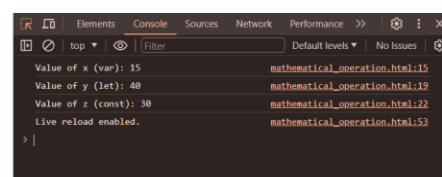
1. Run the `math_operations.js` script and also run the `mathematical_operation.html`

```
node math_operations.js
```

2. The output will display the results of operations using `let`, `var`, and `const`.

Mathematical operation using `let`, `var`, and `const` in JavaScript

You can see the answer in the console



```
C:\Users\harsh\nodejs-assessment>node math_operations.js
Value of x (var): 15
Value of y (let): 40
Value of z (const): 30

C:\Users\harsh\nodejs-assessment>
```

4. Run Custom Array Method Implementations

Steps:

1. Run the array_methods.js script and also run in the **array_methods.html**

node array_methods.js

2. The script tests custom implementations of map, reduce, filter, and flatMap

Implement map, reduce, filter, and flatMap using JavaScript.

You can see the answer in the console



```
C:\Users\harsh\nodejs-assessment>node array_methods.js
myMap: [ 2, 4, 6, 8, 10 ]
myReduce: 15
myFilter: [ 3, 4, 5 ]
myFlatMap: [ 2, 4, 6, 8, 10 ]

C:\Users\harsh\nodejs-assessment>
```

Commands Summary

Task	Command
Start HTTP Server	Node server.js
Run Mathematical Operations	Node math_operations.js

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Task

Test Custom Array Methods

Command

`node array_methods.js`

THANK YOU