

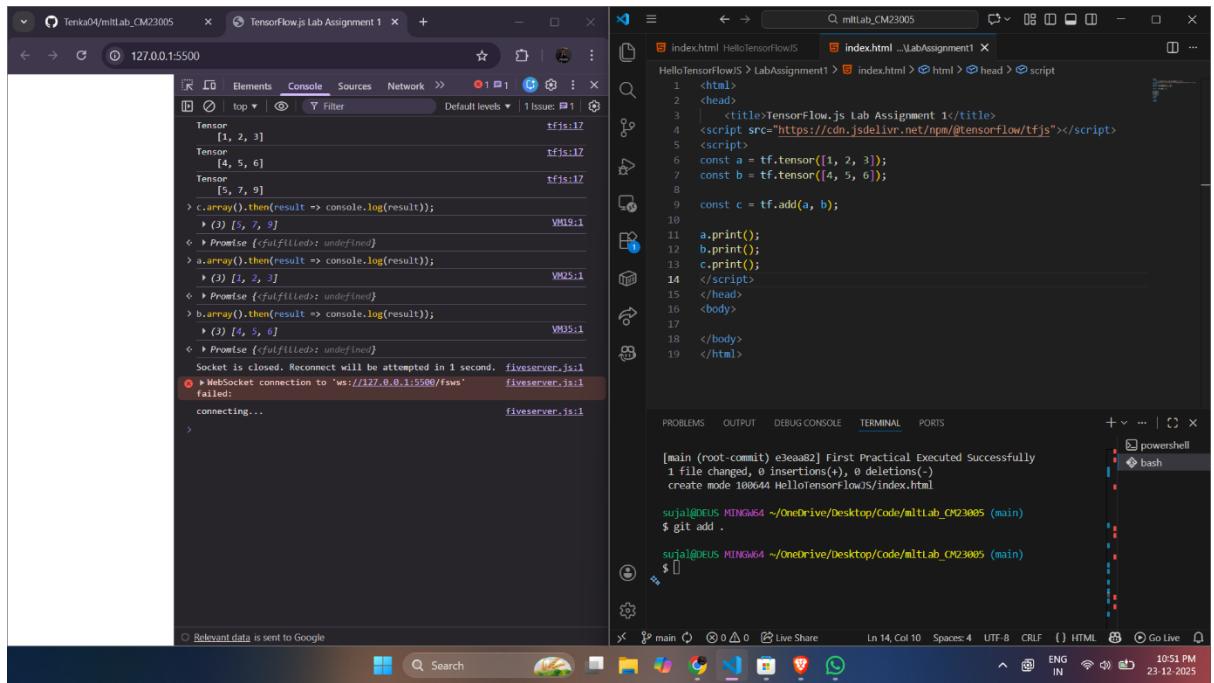
Output 1: Verified the installation of TensorFlow.js



Verify TensorFlow.js installation by creating tensors, performing addition, and printing results.



Output 2: Lab Assignment 1 done



Output 3: Lab Assignment 2 done

```
Tensor A: [10, 20, 30]
Tensor B: [2, 4, 6]
Addition: [12, 24, 36]
Subtraction: [8, 16, 24]
Multiplication: [20, 80, 180]
Division: [5, 5, 5]
```

RELEVANT DATA IS SENT TO GOOGLE

File Edit Selection View Go Run Terminal Help <- > mlLab_CM23005

EXPLORER index.html prelab index.html ... \HelloTensorFlowJS index2.html

```
1 <html>
2 <head>
3   <title>Tensor Operations using TensorFlow.js</title>
4   <script src="https://cdn.jsdelivr.net/npm/@tensorflow/tfjs"></script>
5 </head>
6 <body>
7   <script>
8     const a = tf.tensor([10, 20, 30]);
9     const b = tf.tensor([2, 4, 6]);
10
11    console.log("Tensor A:");
12    a.print();
13
14    console.log("Tensor B:");
15    b.print();
16
17    // Addition
18    const add = tf.add(a, b);
19    console.log("Addition:");
20    add.print();
21
22    // subtraction
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
surjal@DEUS MINGW64 ~/OneDrive/Desktop/Code/mlLab_CM23005 (main)
$ git reset --hard HEAD-1
git push origin main --force
Deletion of directory 'prelab/LabAssignment2' failed. Should I try again? (y/n) y
Deletion of directory 'prelab/LabAssignment2' failed. Should I try again? (y/n) y
Deletion of directory 'prelab/LabAssignment2' failed. Should I try again? (y/n) n
HEAD is now at fac599 placement of index file
total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
to https://github.com/TenkA04/mlLab_CM23005.git
+ c696027...fac599 main -> main (forced update)
```

OUTLINE TIMELINE

surjal@DEUS MINGW64 ~/OneDrive/Desktop/Code/mlLab_CM23005 (main)

LN 39, COL 1 SPACES: 4 UTF-8 CRLF HTML http://127.0.0.1:5500

Output 4: Lab Assignment 3 done

TensorFlow.js Lab Assignment 1

127.0.0.1:5500/Heliotensor/S/LabAssignment1/index.html

Original Tensor: `[1, 2, 3, 4, 5, 6]` `index.html:12`

Reshaped Tensor (2x3): `[[1, 2, 3], [4, 5, 6]]` `index.html:12`

Flattened Tensor: `[1, 2, 3, 4, 5, 6]` `index.html:12`

RELEVANT DATA IS SENT TO GOOGLE

File Edit Selection View Go Run Terminal Help

PRELAB > LabAssignment3 > index3.html > ...

```
1 <html>
2 <head>
3   <title>Tensor Reshape and Flatten</title>
4   <script src="https://cdn.jsdelivr.net/npm/@tensorflow/tfjs"></script>
5 </head>
6 <body>
7   <script>
8     const tensor = tf.tensor([1, 2, 3, 4, 5, 6]);
9
10    console.log("Original Tensor:");
11    tensor.print();
12
13    // Reshape the tensor into 2x3 matrix
14    const reshapedTensor = tensor.reshape([2, 3]);
15    console.log("Reshaped Tensor (2x3):");
16    reshapedTensor.print();
17
18    // Flatten the reshaped tensor
19    const flattenedTensor = reshapedTensor.flatten();
20    console.log("Flattened Tensor:");
21    flattenedTensor.print();
22  </script>
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

sujal@DEUS MINGW64 ~/OneDrive/Desktop/code/mitlab_CM23005 (main)

```
$ git reset --hard HEAD-1
git push origin main --force
Deletion of directory 'prelab/LabAssignment2' failed. Should I try again? (y/n) y
Deletion of directory 'prelab/LabAssignment2' failed. Should I try again? (y/n) y
Deletion of directory 'prelab/LabAssignment2' failed. Should I try again? (y/n) y
HEAD is now at fac9592 placement of index file
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/TenkA0/MITLab_CM23005.git
+ c096027...fac9592 main -> main (forced update)
```

bash Five Server

OUTLINE TIMELINE

main* 0 0 Live Share

http://127.0.0.1:5500