

127.0.0.1:5500/tensorFlowjs/index.html

```
> a.print();
Tensor
[[1, 2, 3],]
< undefined
> b.print();
Tensor
[[4, 5, 6],]
< undefined
> c.print();
Tensor
[[5, 7, 9],]
< undefined
> |
```

Step 1 - Tensor Creation Step 2 - Matrix Addition Step 3 - Reshape vs Flatten 127.0.0.1:5500/TensorFlowjs/LabAssignment1/tensorcreation.html

Step 1: Tensor Creation

```
Scalar:
Tensor
10

Vector:
Tensor
[1, 2, 3]

Matrix:
Tensor
[[1, 2],
 [3, 4]]
```

```
Step 1 Output:
tensorcreation.html:27
Tensor
10
tfjs@latest:17
Tensor
[1, 2, 3]
tfjs@latest:17
Tensor
[[1, 2],
 [3, 4]]
tfjs@latest:17
> scalar.print();
Tensor
10
tfjs@latest:17
< undefined
> vector.print();
Tensor
[1, 2, 3]
tfjs@latest:17
< undefined
> matrix.print();
Tensor
[[1, 2],
 [3, 4]]
tfjs@latest:17
< undefined
> |
```

Step 1 - Tensor Creation Step 2 - Matrix Addition Step 3 - Reshape vs Flatten

127.0.0.1:5500/tensorflows/LabAssignment2/matrixadd.html

Step 2: Matrix Addition

```
Matrix A:  
Tensor  
[[1, 2],  
 [3, 4]]  
  
Matrix B:  
Tensor  
[[5, 6],  
 [7, 8]]  
  
A + B:  
Tensor  
[[6, 8],  
 [10, 12]]
```

Step 2 Output:

```
Tensor  
[[1, 2],  
 [3, 4]]  
Tensor  
[[5, 6],  
 [7, 8]]  
Tensor  
[[6, 8],  
 [10, 12]]  
> matrixA.print();  
Tensor  
[[1, 2],  
 [3, 4]]  
< undefined  
> matrixB.print();  
Tensor  
[[5, 6],  
 [7, 8]]  
< undefined  
> Sum.print();  
Uncaught ReferenceError: Sum is not defined  
at anonymous:1:1  
[NEW] Explain Console errors by using Copilot in Edge:  
click ⚡ to explain an error. learn more  
> sum.print();  
Tensor  
[[6, 8],  
 [10, 12]]  
< undefined  
>
```

Console Issues +

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Step 1 - Tensor Creation Step 2 - Matrix Addition Step 3 - Reshape vs Flatten

127.0.0.1:5500/tensorflows/LabAssignment3/reshapevsflatten.html

Step 3: Reshape vs Flatten

```
Original Tensor (2x3):  
Tensor  
[[1, 2, 3],  
 [4, 5, 6]]  
  
Reshaped Tensor (3x2):  
Tensor  
[[1, 2],  
 [3, 4],  
 [5, 6]]  
  
Flattened Tensor:  
Tensor  
[1, 2, 3, 4, 5, 6]
```

Step 3 Output:

```
Tensor  
[[1, 2, 3],  
 [4, 5, 6]]  
Tensor  
[[1, 2],  
 [3, 4],  
 [5, 6]]  
Tensor  
[1, 2, 3, 4, 5, 6]  
> original.print();  
Tensor  
[[1, 2, 3],  
 [4, 5, 6]]  
< undefined  
> reshaped.print();  
Tensor  
[[1, 2],  
 [3, 4],  
 [5, 6]]  
< undefined  
> flattened.print();  
Tensor  
[1, 2, 3, 4, 5, 6]  
< undefined  
>
```

Console Issues +

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