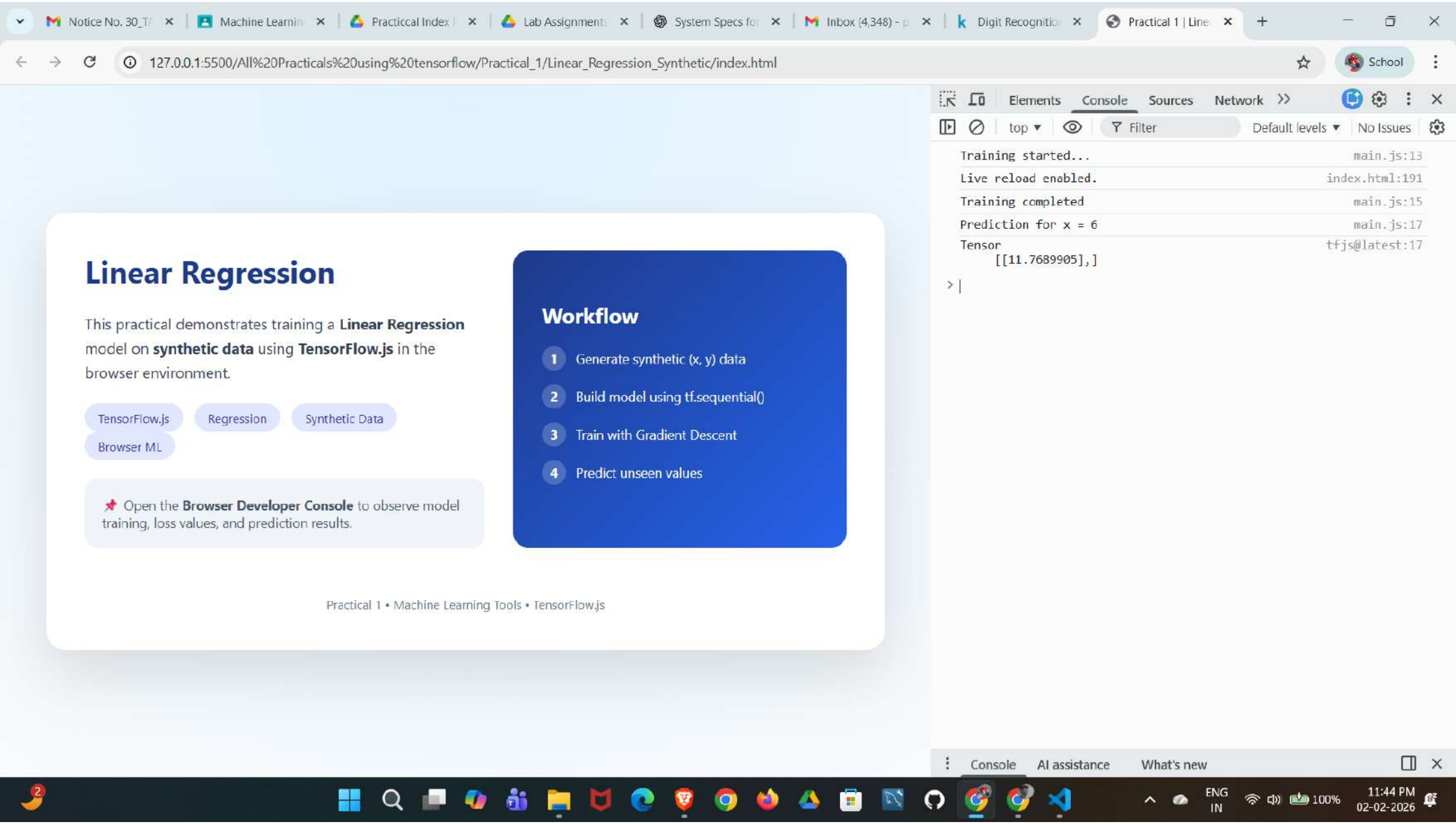
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127.0.0.1:5500/All%20Practicals%20using%20tensorflow/Practical_1/Linear_Regression_Synthetic/index.html
School
Linear Regression
This practical demonstrates training a Linear Regression model on synthetic data using TensorFlow.js in the browser environment.
TensorFlow.js
Regression
Synthetic Data
Browser ML
Open the Browser Developer Console to observe model training, loss values, and prediction results.
Workflow
1 Generate synthetic (x, y) data
2 Build model using tf.sequential()
3 Train with Gradient Descent
4 Predict unseen values
Practical 1 • Machine Learning Tools • TensorFlow.js
Elements
Console
Sources
Network
top
Filter
Default levels
No Issues
Training started... main.js:13
Live reload enabled. index.html:191
Training completed main.js:15
Prediction for x = 6 main.js:17
Tensor tfjs@latest:17
[[11.7689905],]
Console
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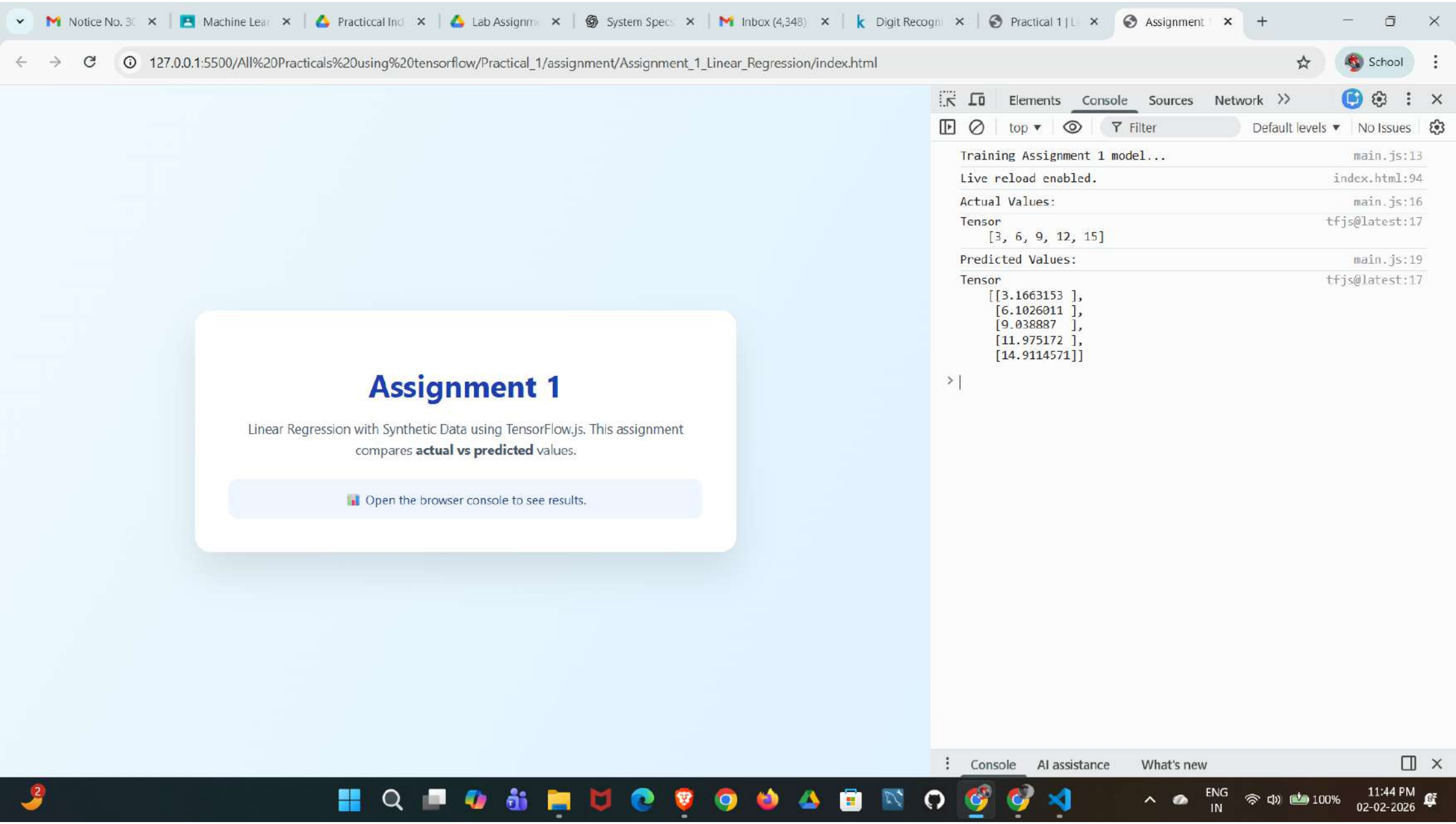
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School
Assignment 1
Linear Regression with Synthetic Data using TensorFlow.js. This assignment compares actual vs predicted values.
Open the browser console to see results.
Elements
Console
Sources
Network
top
Filter
Default levels
No Issues
Training Assignment 1 model... main.js:13
Live reload enabled. index.html:94
Actual Values: main.js:16
Tensor tfjs@latest:17
[3, 6, 9, 12, 15]
Predicted Values: main.js:19
Tensor tfjs@latest:17
[[3.1663153],
[6.1026011],
[9.038887],
[11.975172],
[14.9114571]]
Console
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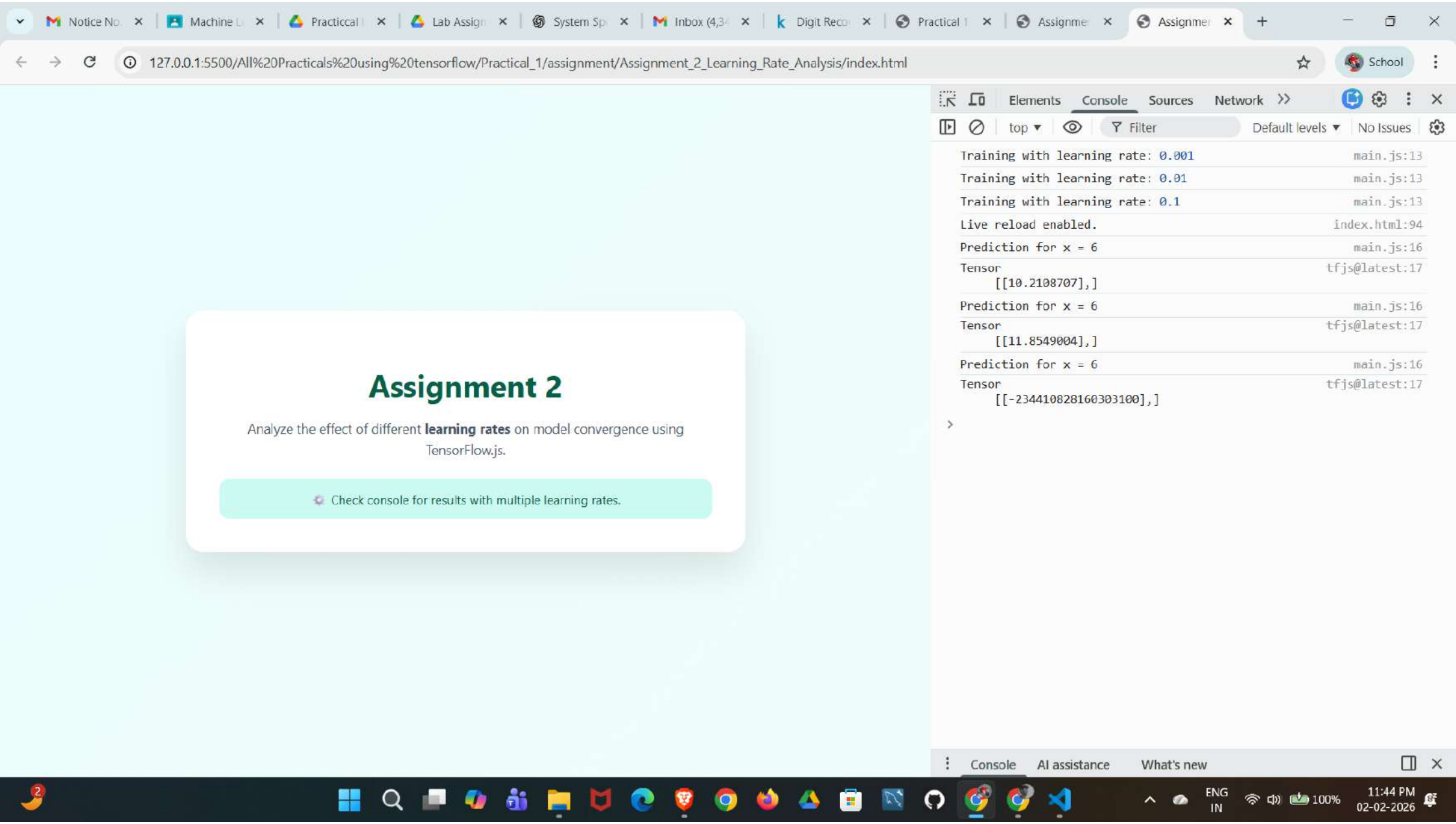
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School
Assignment 2
Analyze the effect of different learning rates on model convergence using TensorFlow.js.
Check console for results with multiple learning rates.
Elements
Console
Sources
Network
top
Filter
Default levels
No Issues
Training with learning rate: 0.001 main.js:13
Training with learning rate: 0.01 main.js:13
Training with learning rate: 0.1 main.js:13
Live reload enabled. index.html:94
Prediction for x = 6 main.js:16
Tensor tfjs@latest:17
[[10.2108707],]
Prediction for x = 6 main.js:16
Tensor tfjs@latest:17
[[11.8549004],]
Prediction for x = 6 main.js:16
Tensor tfjs@latest:17
[[-234410828160303100],]
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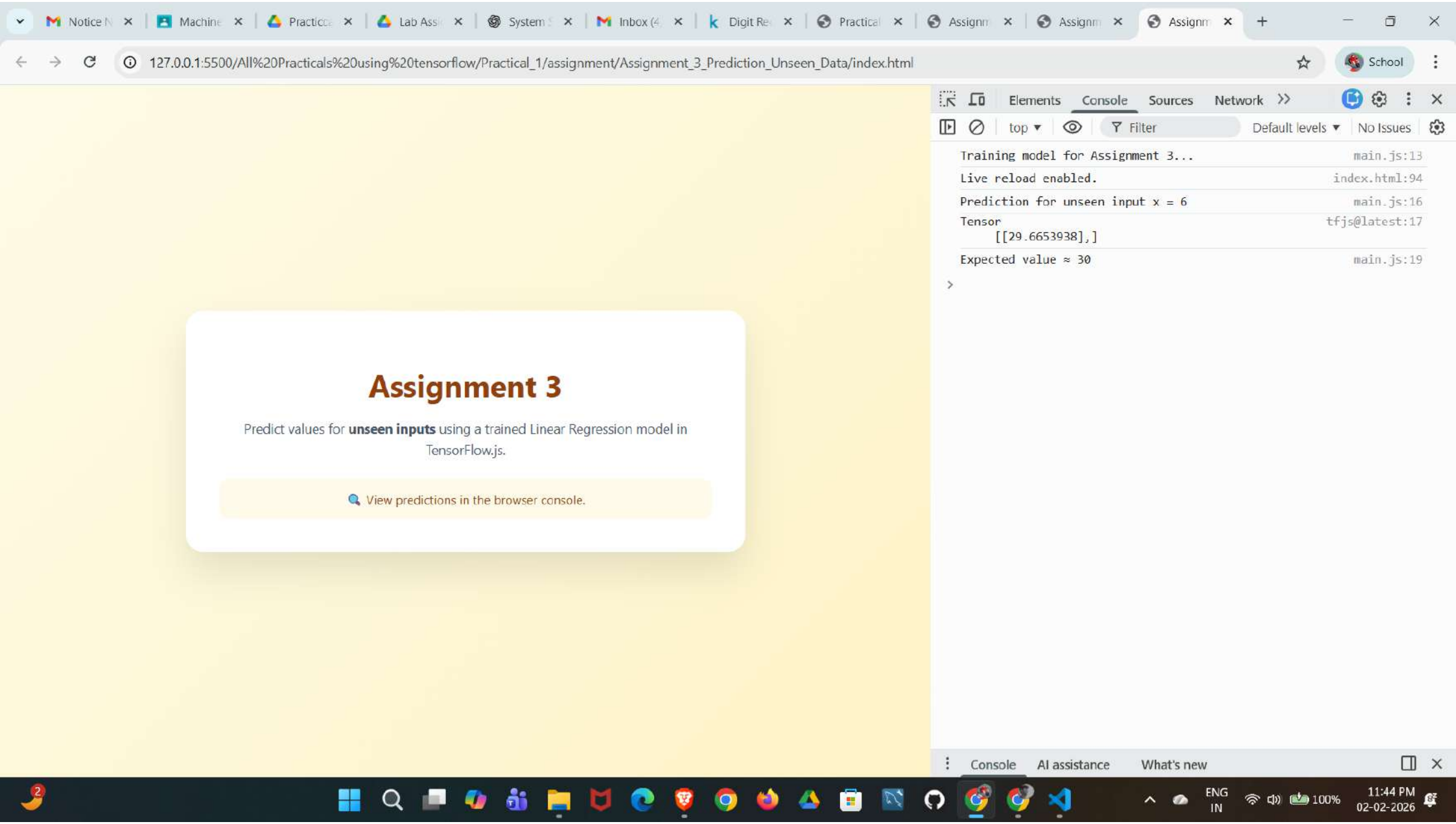
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School
Assignment 3
Predict values for unseen inputs using a trained Linear Regression model in TensorFlow.js.
View predictions in the browser console.
Elements
Console
Sources
Network
top
Filter
Default levels
No Issues
Training model for Assignment 3... main.js:13
Live reload enabled. index.html:94
Prediction for unseen input x = 6 main.js:16
Tensor tfjs@latest:17
[[29.6653938],]
Expected value ≈ 30 main.js:19
Console
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