# JavaScript Intro for Beginners Exercises for Lab 1

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## 1 Setup for working on exercises in groups

The empty source code files for the exercises are in the labcode folder and have the questions word as the final portion of their filename.

Each source code file contains the questions encapsulated in comments.

You will be writing your JavaScript source code locally on your respective machines. However, we need a way to share your code with everyone else in a group. There are generally 3 ways to do this:

#### 1.1 Shared GoogleDoc document

You should have received a link for a shared workspace for this workshop, where everyone can note down misc info and changes made here are immediately viewable by everyone who has access to this link.

You can simply designate some space here where you can copy and paste code from your local editor for others to view and/or copy and paste into their respective local code editor

#### 1.2 JavaScript playground

There are many good <u>playgrounds</u> available. We will use <u>Codepen</u> for this workshop. You should signup for an account to be able to share your pen with others in your group.

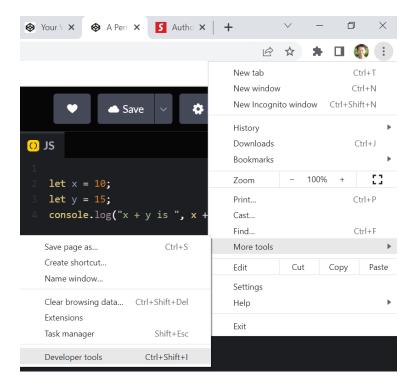
You create a new Pen by simply clicking on the main Pen icon in the left pane.



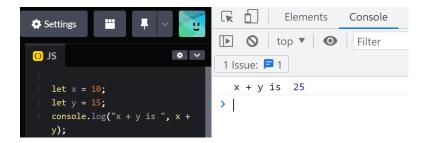
Type your JavaScript code in the JS pane and then click Save when done. You can opt to give your pen a title in order to make it easier to share.



In your browser options, select More Tools -> Developer Tools



Then select the Console Panel in the Developer Tools Window that opens up on the right hand side. You should be able to see all the output from the <code>console.log</code> statements in your JavaScript program.



Every time you make changes to the JS pane in CodePen, the changes are automatically saved and the program is run in the background. This may cause syntax errors to appear in the Console panel. In that case, once you have corrected all errors, simply refresh the browser view by pressing F5 or selecting the URL in the browser address bar and pressing Enter.

When you are ready to share your work with others, simply copy the URL from the browser address bar and paste it into the chat box of your meeting application or into the Google Shared doc, for others to access and open up in their browser.

When you make any further changes to the JS Pane and save it, anyone else who has the URL can refresh it (pressing F5) and will see the latest changes. However, if they make any changes to the pen from their browser, they can only see the effects on their local browser. In other words, only changes made to the pen by its owner are publicly viewable to everyone who has the URL for the pen. Any other changes made by anyone else is only viewable privately to them, and cannot be shared.

#### 1.3 VS Code Live Share

This supports collaborative coding, where 2 or more people are able to access the same source code file at the same time and make changes to it simultaneously. For this feature, we will use <u>VS Code Live Share</u> with the <u>complete step-by-step instructions</u> provided here.

To use this feature, properly you will need to sign up for a <u>GitHub account</u> or <u>Microsoft Live account</u>, if you don't already have one.

## 2 Basic output in JavaScript

File to use: basic-output-question.js

## 3 Declaring variables and storing values in them

File to use: variables-question.js

#### 4 Data types

File to use: datatypes-question.js

# 5 Mathematical expressions with arithmetic operators

File to use: expressions-question.js

# 6 Unary and assignment operators

File to use: unary-assignment-question.js

# 7 Comparison and logical operators

File to use: comparison-logical-question.js