

Workshop 1 – Setting up Node.js

This workshop is worth 2.5%

You must demonstrate your completed workshop to your tutor in your lab to receive the marks.

In this workshop you will set up your Node.js environment through your favourite IDE and run some sample projects.

Task 1 – Using Node and NPM

Using your own laptop:

- Follow the lecture slides and install Node.js

Using a lab Desktop:

- Node.js and NPM is already installed on the lab computers.
- If you use the Visual Studio Code IDE you can run the Visual Studio Code (Node.js) version which includes Node.js

When Node.js is installed create your week 1 folder and open that folder in your IDE. In your terminal or command prompt, initialise your Node.js project with NPM.

Call your project helloworld. After setting the initial package, create an index.js file and write a log that says “Hello World, Node.js!”

Task 2 – Managing Strings in Node.js

Under your “Hello World, Node.js” in your index.js file start creating manipulating strings in JavaScript.

- A. First create a variable named “myString” with the content “Hello@World, Node.js Stringsss”
- B. Create a second variable “badWord” with the content “bad word”
- C. Create a third variable named “mistype” with the content “Spwlling”

Concatenate all three strings together and print the output to the console. Run the program using Node.js.

Task 3 – Deleting unwanted characters

With your first variable find out how to change the “@” mark to a space and delete the two “s”’s at the end of the string, before the concatenated string is printed.

Task 4 – checking and changing

With the second variable that you have created change the “bad word” by checking with an if statement, and change the badWord variable to “*****” before the string is concatenated.

Task 5 – NPM packages

Let’s play around with some other npm packages.

<https://www.npmjs.com/package/hello-world-npm>

Go to this website and get the basic hello world npm working.

Task 6 – JavaScript exercises

Go to the CodeAcademy [Introduction to JavaScript](#) course and complete the following exercises:

- Introduction to JavaScript
- Variables
- Control Flow
- Functions