**JavaScript Coding Exercise 1:**

**Variable and Values**

1. Declare variables called 'country', 'continent' and 'population' and assign their values according to your own country (population in millions)
2. Log their values to the console

**Data Types**

1. Declare a variable called 'isIsland' and set its value according to your country. The variable should hold a Boolean value. Also declare a variable 'language', but don't assign it any value yet
2. Log the types of 'isIsland', 'population', 'country' and 'language' to the console

**let, const and var**

1. Set the value of 'language' to the language spoken where you live (some countries have multiple languages, but just choose one)
2. Think about which variables should be const variables (which values will never change, and which might change?). Then, change these variables to const.
3. Try to change one of the changed variables now, and observe what happens

**Basic Operators (Arithmetic)**

1. If your country split in half, and each half would contain half the population, then how many people would live in each half?
2. Increase the population of your country by 1 and log the result to the console
3. Finland has a population of 6 million. Does your country have more people than Finland?
4. The average population of a country is 33 million people. Does your country have less people than the average country?
5. Based on the variables you created, create a new variable 'description' which contains a string with this format: *Nepal is in Asia, and its 11 million people speak nepalese’*

**Strings and Template Literals**

1. Recreate the 'description' variable from the last assignment, this time using the template literal syntax

**Taking Decisions: if / else Statements**

1. If your country's population is greater that 33 million, log a string like this to the console: *Nepal‘s population is above average'*. Otherwise, log a string like *' Nepal‘s population is 22 million below average'* (the 22 is the average of 33 minus the country's population)
2. After checking the result, change the population temporarily to 13 and then to 130. See the different results, and set the population back to original

**Type Conversion and Coercion**

1. Predict the result of these 5 operations without executing them:

'9' - '5';

'19' - '13' + '17';

'19' - '13' + 17;

'123' < 57;

5 + 6 + '4' + 9 - 4 - 2;

1. Execute the operations to check if you were right

**Equality Operators: == vs. ===**

1. Declare a variable 'numNeighbours' based on a prompt input like this: prompt('How many neighbour countries does your country have?');
2. If there is only 1 neighbour, log to the console *'Only 1 border!'* (use loose equality == for now)
3. Use an else-if block to log 'More than 1 border' in case 'numNeighbours' is greater than 1
4. Use an else block to log *'No borders'* (this block will be executed when 'numNeighbours' is 0 or any other value)
5. Test the code with different values of 'numNeighbours', including 1 and 0.
6. Change == to ===, and test the code again, with the same values of 'numNeighbours'. Notice what happens when there is exactly 1 border! Why is this happening?
7. Finally, convert 'numNeighbours' to a number, and watch what happens now when you input 1
8. Reflect on why we should use the === operator and type conversion in this situation

**Logical Operators**

1. Comment out the previous code so the prompt doesn't get in the way
2. Let's say Rekha is looking for a new country to live in. She wants to live in a country that speaks English, has less than 50 million people and is not an island.
3. Write an if statement to help Rekha figure out if your country is right for her. You will need to write a condition that accounts for all of Rekha’s criteria. Take your time with this, and check part of the solution if necessary.
4. If yours is the right country, log a string like this: *'You should live in Nepal:)'*. If not, log ‘*Nepal does not meet your criteria :('*
5. Probably your country does not meet all the criteria. So go back and temporarily change some variables to make the condition true (unless you live in China :D)