1. How can you check the **data type** of a variable in JavaScript?
2. Explain the difference between **let, const, and var** in JavaScript.
3. Given an array of numbers, **numbers = [1, 2, 3, 4, 5],** write a JavaScript program that performs the following operations:
   1. Use the map method to create a new array **squaredNumbers** that contains the square of each number in the original array.
   2. Use the filter method to create a new array **evenNumbers** that contains only the even numbers from the original array.
   3. Use the reduce method to calculate the **sum** of all numbers in the original array.
4. Given a string sentence = **"The quick brown fox jumps over the lazy dog"**, write a JavaScript program that performs the following operations:
   1. Use the split method to **split** the sentence into an array of words.
   2. Use the join method to **join** the words back together into a single string, separated by dashes (-).
   3. Use the **toLowerCase** method to convert the string to all lowercase letters.
   4. Use the **toUpperCase** method to convert the string to all uppercase letters.
   5. Use the **indexOf** method to find the index of the word **"fox"** in the string.