

JavaScript Challenges (strings, arrays, and date/time)

Web II Lab | SE & IT Dept. – Level 3

1. Check for Anagrams: Write a function that takes two strings as input and returns true if the two strings are anagrams (meaning they contain the same letters in a different order).
2. Slice an Array: Write a function that takes an array and two indices as input and returns a new array that contains the elements between the two indices.
3. Split a String into Words: Write a function that takes a string as input and returns an array of the words in that string.
4. Calculate the Age Based on a Date of Birth: Write a function that takes a date of birth as input and returns the age of the person as of today.
5. Check if a String is a Valid Email Address: Write a function that takes a string as input and returns true if the string is a valid email address.
6. Replace All Occurrences of a Substring in a String: Write a function that takes a string, a substring, and a replacement string as input, and returns the same string with all occurrences of the substring replaced with the replacement string.
7. Find the Second Smallest Value in an Array: Write a function that takes an array of numbers as input and returns the second smallest value in that array.
8. Find the Difference Between Two Arrays: Write a function that takes two arrays as input and returns an array that contains the elements that are in the first array but not in the second array.
9. Format a Time Duration: Write a function that takes a time duration (in seconds) as input and returns a formatted string in the format of "X hours, Y minutes, Z seconds".
10. Convert a String to CamelCase: Write a function that takes a string as input and returns the same string in CamelCase (meaning each word is capitalized except for the first word).