First Non-repeating Character

```
function firstNonRepeatedChar(str) {
    // Create a frequency map to store the count of each character
    const charCount = {};

    // Count the frequency of each character in the string
    for (let char of str) {
        charCount[char] = (charCount[char] || 0) + 1;
    }

    // Iterate through the string again to find the first non-repeated characte
r
    for (let char of str) {
        if (charCount[char] === 1) {
            return char;
        }
    }

    // If no non-repeated character is found, return null
    return null;
}
```

Roman Numeral Converter

```
function convertToRoman(num) {
    const romanSymbols = [
        ['M', 1000],
        ['CM', 900],
        ['D', 500],
        ['CD', 400],
        ['C', 100],
        ['XC', 90],
        ['L', 50],
        ['XL', 40],
        ['X', 10],
```

```
        ['IX', 9],
        ['V', 5],
        ['IV', 4],
        ['I', 1]
    ];

    let result = '';

    for (let [symbol, value] of romanSymbols) {
        // Keep subtracting the value from the number and append the symbol to
the result string
        while (num >= value) {
            result += symbol;
            num -= value;
        }
    }

    return result;
}
```

First Word

```
function firstWord(s) {
  // Trim leading and trailing spaces to handle strings starting with spaces
  s = s.trim();

  // Find the index of the first space
  const spaceIndex = s.indexOf(' ');

  // If no space is found, return the entire string
  if (spaceIndex === -1) {
    return s;
  }

  // Return the substring from the start of the string to the first space
```

```
  return s.substring(0, spaceIndex);
}
```

Capitalise Name

```
// Get the input element by its id
const inputField = document.getElementById('fname');

// Add an event listener to trigger when the input field loses focus (onblur ev
ent)
inputField.addEventListener('blur', function() {
  // Convert the input value to uppercase
  inputField.value = inputField.value.toUpperCase();
});
```

Index Of Ignore Case

```
function indexOfIgnoreCase(str, subStr) {
  // Convert both strings to lowercase to ensure case-insensitive comparison
  const lowerStr = str.toLowerCase();
  const lowerSubStr = subStr.toLowerCase();

  // Use the built-in indexOf method to find the first occurrence of subStr in
str
  return lowerStr.indexOf(lowerSubStr);
}
```

Chunk String

```
function stringChop(str, size) {
  // Return an empty array if the input string is null or size is not positive
  if (!str || size <= 0) return [];

  // Initialize an array to store the chunks
  const chunks = [];
```

```
  // Loop through the string, taking slices of the given size
  for (let i = 0; i < str.length; i += size) {
    chunks.push(str.slice(i, i + size));
  }

  return chunks;
}
```

Sorting Articles

```
<!DOCTYPE html>
<html>
<head>
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <!-- the entire body must be written by student -->
     <h1>Sorted Band Articles</h1>
    <ul id="band"></ul>
    <script type="text/javascript" src="script.js">
</script>
</body>
</html>
```

```
body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 20px;
    background-color: #f4f4f4;
}

h1 {
    text-align: center;
}

ul#band {
```

```
    list-style-type: square;
    padding: 0;
    width: 50%;
    margin: 0 auto;
}

ul#band li {
    padding: 10px;
    font-size: 18px;
    border-bottom: 1px solid #ccc;
}
```

```
const bands = [
    'The Plot in You',
    'The Devil Wears Prada',
    'Pierce the Veil',
    'Norma Jean',
    'The Bled',
    'Say Anything',
    'The Midway State',
    'We Came as Romans',
    'Counterparts',
    'Oh, Sleeper',
    'A Skylit Drive',
    'Anywhere But Here',
    'An Old Dog'
];

// Function to strip articles (A, An, The) from the band names
function strip(bandName) {
    return bandName.replace(/^(a |an |the )/i, '').trim();
}

// Sort bands by name, ignoring articles
const sortedBands = bands.sort((a, b) => strip(a).localeCompare(strip(b)));

// Display the sorted band names in the unordered list
```

```
const bandList = document.getElementById('band');
sortedBands.forEach(band => {
    const li = document.createElement('li');
    li.textContent = band;
    bandList.appendChild(li);
});
```