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/* ==================== Daily JS - Day 24 ==================== */
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  # Day 24: The `for .. of` loop

  Welcome back to the 24th day of DailyJS. Today's topic is
  the `for of` loop.

  You might have seen an exact same thing in some other
  languages as well. As the name (`loop`) suggests,
  it is used to iterate over the iterable objects

  - String
  - Array
  - TypedArray
  - Map
  - Set
  - User-defined iterables

  Let's have a look at the syntax

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  ## Syntax

  Syntax of the for..of loop is probably one of
  the easiest things to understand, basically you
  can iterate over each element of the iterable
  like this -

  ```js
    const myArr = ['A', 'B', 'C'];

    for (const element of myArr) {
        // Do something with the "element"
        ...
        ...
    }
  ```


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   ## Example 1 - Iterating over an Array

   **Find the sum of all elements in an array using for..of loop**

   ```js
     // Iterating over an array

     const sumAll = (numbers) ⇒ {
         let sum = 0;
         for (const number of numbers) {
             sum += number;
         }
         return sum;
     }

     const myArr = [1, 2, 3, 4, 5];
     console.log ('Sum of', myArr, ' = ', sumAll (myArr));
   ```


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  ## Example 2 - Iterating over a String

  **Write a function to reverse a string using for..of loop**

  ```js
    const reverseStr = (sentence) ⇒ {
        let reversed = '';
        for (const letter of sentence) {
            reversed = letter + reversed;
        }
        return reversed;
    }


    const myStr = 'Hello World!';
    console.log(`Reverse of "${myStr}" = ${reverseStr(myStr)}`);
  ```


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  ## Example 3 - Iterating over a Map

  ```js
    const myMap = new Map ([['a', 1], ['b', 2]]);

    for (const [key, val] of myMap) {
        console.log ('Key: ', key);
        console.log ('Val: ', val);
    }
  ```


  That's it for today, see you tomorrow :)

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Thank you!

Feel free to reach out...

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