75 Days of Code

Day1
Problem1

You are given two strings word1 and word2. Merge the strings by adding letters in alternating order, starting with word1. If a string is longer than the other, append the additional letters onto the end of the merged string.

Example 1:

Input: word1 = "abc", word2 = "pqr"
Output: "apbqcr"
Explanation: The merged string will be merged as so:
word1: a b c
word2: p q r
merged: a p b q c r

Solution

For this problem ,

1. **I have taken a variable to get maximum length between 2 strings**
2. **Now loop through maximum ,**
3. **Check if the index of loop exist in the string , if it exist merge them alternately**

```
function mergeAlternately(word1: string, word2: string): string {
    const maxWordLength = Math.max(word1.length,word2.length)
    let resultString= '';
    for(let index=0;index<maxWordLength ;index++){
        let startingString= word1[index]?word1[index]:'';
        let endingString = word2[index]?word2[index]:'';


        resultString+=startingString+endingString;


    }
return resultString;
};

let word1 = 'abc';
let word2='pqr';
const mergedString = mergeAlternately(word1,word2);
console.log(mergedString)
```

```
[Running] node "c:\Users\Shubham\Desktop\75daysOfCode\75DaysOfCode\day1.js"
apbqcr

[Done] exited with code=0 in 0.171 seconds
```