

Assignment

1. **Count Vowels:** Write a `for` loop that counts the number of vowels (a, e, i, o, u) in the string `"programming"`.
2. **Uppercase Letters:** Use a `for` loop to count the number of uppercase letters in the string `"Hello World!"`.
3. **Remove Spaces:** Use a `for` loop to create a new string that is the same as `"hello world"` but without any spaces.
4. **Substring Match:** Write a `for` loop to find and count how many times the substring `"is"` appears in the string `"This is a test. Is it?"`.
5. **Palindrome Check:** Use a `for` loop to check if the string `"racecar"` is a palindrome (reads the same backward as forward).
6. **Replace Characters:** Write a `for` loop to replace every occurrence of the letter `"a"` with `"@"` in the string `"javascript"`.
7. **Index of Character:** Use a `for` loop to find the index of the first occurrence of the character `"e"` in the string `"hello there"`.
8. **Frequency Count:** Write a `for` loop to count the frequency of each character in the string `"banana"`.
9. **Alternate Characters:** Use a `for` loop to log every second character in the string `"abcdefgh"`.
10. **Concatenate Characters:** Write a `for` loop to concatenate characters of the string `"12345"` separated by `-`.
11. **Character Positions:** Use a `for` loop to log the character and its position for the string `"test"`.
12. **Uppercase Conversion:** Write a `for` loop that converts every lowercase letter in the string `"Hello World!"` to uppercase.
13. **Capitalize Words:** Use a `for` loop to capitalize the first letter of each word in the string `"hello world from javascript"`.
14. **Count Consonants:** Write a `for` loop to count the number of consonants in the string `"javascript"`.
15. **Replace Digits:** Use a `for` loop to replace every digit in the string `"a1b2c3"` with the character `"#"`.
16. **Substring Extraction:** Write a `for` loop to extract the substring `"world"` from the string `"hello world"`.