

Ciphertext: DW WKH JDS

Decryption:

- Shift each letter 3 places up the alphabet:

D -> A

W -> T

W -> T

K -> H

H -> E

J -> G

D -> A

S -> P

Plaintext: ATTACK AT DAWN

Note: This cipher is not secure and can be easily broken.



Javascript code without any inbuilt function



Here's a simple implementation of the Shift Cipher in JavaScript, without using any inbuilt functions:

javascript

Copy code

```
function shiftCipher(str, shift) {  
  let result = "";  
  for (let i = 0; i < str.length; i++) {  
    let charCode = str.charCodeAt(i);  
    if (charCode >= 65 && charCode <= 90) {  
      result += String.fromCharCode((charCode - 65 + shift) % 26 + 65);  
    } else if (charCode >= 97 && charCode <= 122) {  
      result += String.fromCharCode((charCode - 97 + shift) % 26 + 97);  
    } else {  
      result += str[i];  
    }  
  }  
  return result;  
}
```

```
let plaintext = "ATTACK AT DAWN";  
let shift = 3;  
  
let ciphertext = shiftCipher(plaintext, shift);  
console.log("Ciphertext: " + ciphertext);  
  
let decryptedText = shiftCipher(ciphertext, 26 - shift);  
console.log("Plaintext: " + decryptedText);
```

This code uses the `charCodeAt` method to get the Unicode character code of each letter in the plaintext, and the `fromCharCode` method to convert the shifted character code back into a letter. The `% 26` operation ensures that the shift stays within the range of the alphabet (i.e., A-Z or a-z).

