

Template literals

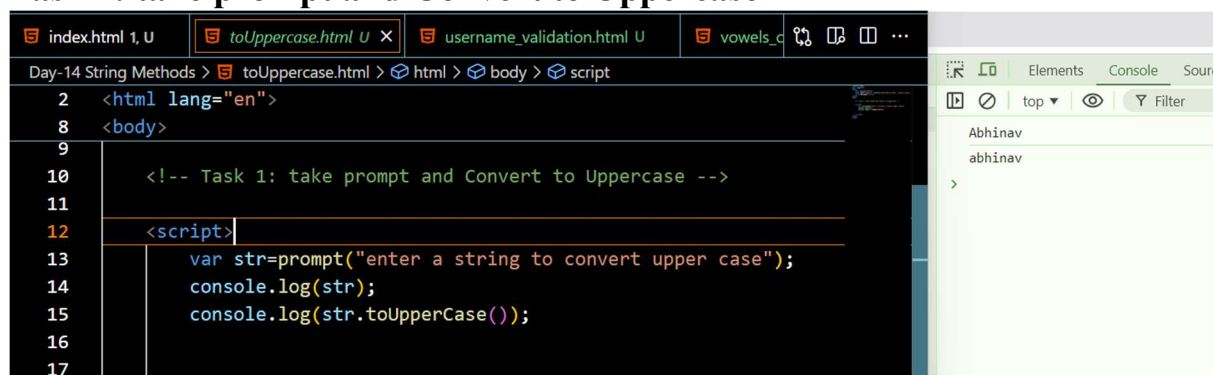
Template literals allow you to embed expressions and variables directly within the string using `${}`. This makes string interpolation more intuitive and readable.

```
let a = 5;
let b = 10;
let result = `The sum of ${a} and ${b} is ${a + b}.`;
// result is "The sum of 5 and 10 is 15."
```

TASKS:

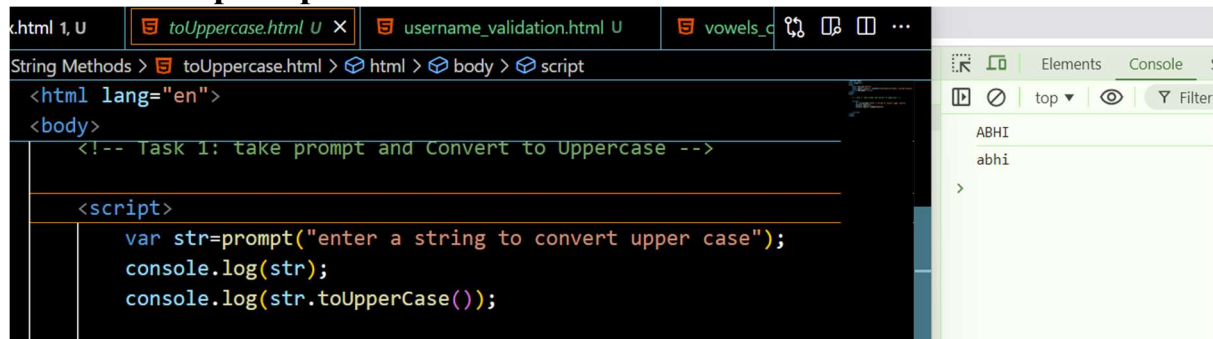
Basic level:

Task 1: take prompt and Convert to Uppercase



```
index.html 1, U | toUppercase.html U X | username_validation.html U | vowels_c | ...
Day-14 String Methods > toUppercase.html > html > body > script
2 <html lang="en">
8 <body>
9
10 <!-- Task 1: take prompt and Convert to Uppercase -->
11
12 <script>
13   var str=prompt("enter a string to convert upper case");
14   console.log(str);
15   console.log(str.toUpperCase());
16
17
```

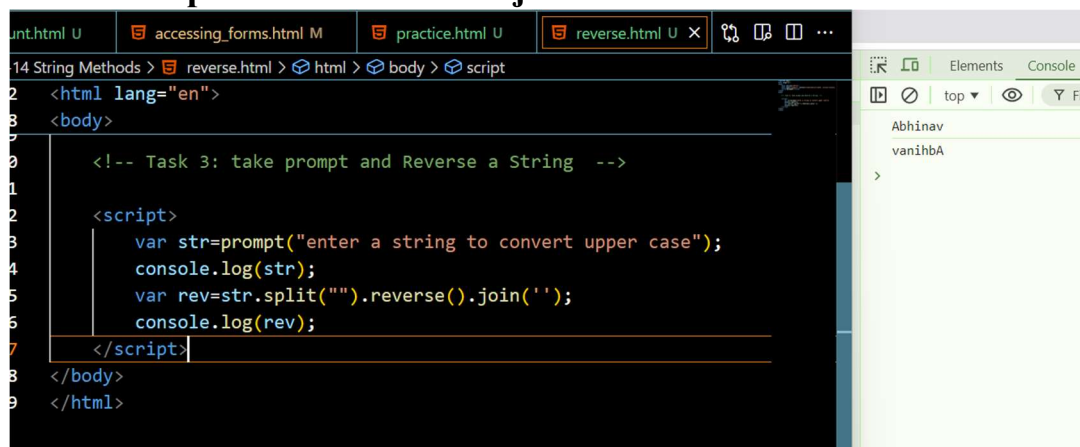
Task 2: take prompt and Convert to Lowercase



```
html 1, U | toUppercase.html U X | username_validation.html U | vowels_c | ...
String Methods > toUppercase.html > html > body > script
<html lang="en">
<body>
<!-- Task 1: take prompt and Convert to Uppercase -->
<script>
var str=prompt("enter a string to convert upper case");
console.log(str);
console.log(str.toUpperCase());
```

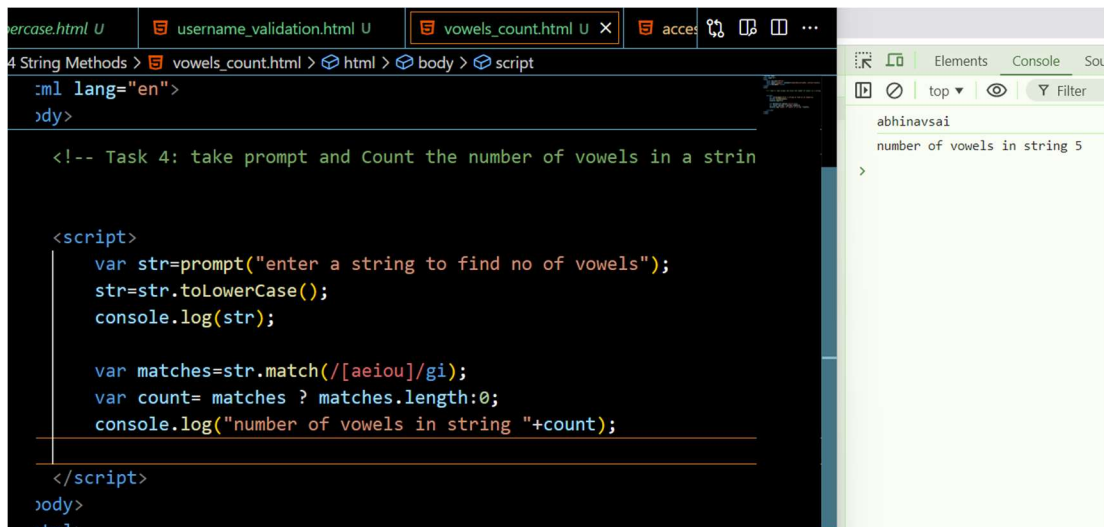
Task 3: take prompt and Reverse a String

hints: use split and reverse and join method



```
unth.html U | accessing_forms.html M | practice.html U | reverse.html U X | ...
14 String Methods > reverse.html > html > body > script
2 <html lang="en">
3 <body>
4
5 <!-- Task 3: take prompt and Reverse a String -->
6
7 <script>
8   var str=prompt("enter a string to convert upper case");
9   console.log(str);
10  var rev=str.split("").reverse().join('');
11  console.log(rev);
12 </script>
13 </body>
14 </html>
```

Task 4: take prompt and Count the number of vowels in a string-- hints use match method



The screenshot shows a web browser with a single tab titled 'vowels_count.html'. The browser's developer tools are open, showing the 'script' tab. The code in the script tag is as follows:

```
<!-- Task 4: take prompt and Count the number of vowels in a string -->

<script>
  var str=prompt("enter a string to find no of vowels");
  str=str.toLowerCase();
  console.log(str);

  var matches=str.match(/[aeiou]/gi);
  var count= matches ? matches.length:0;
  console.log("number of vowels in string "+count);
</script>
</body>
</html>
```

The console output shows the string 'abhinavsai' and the count 'number of vowels in string 5'.

Advanced

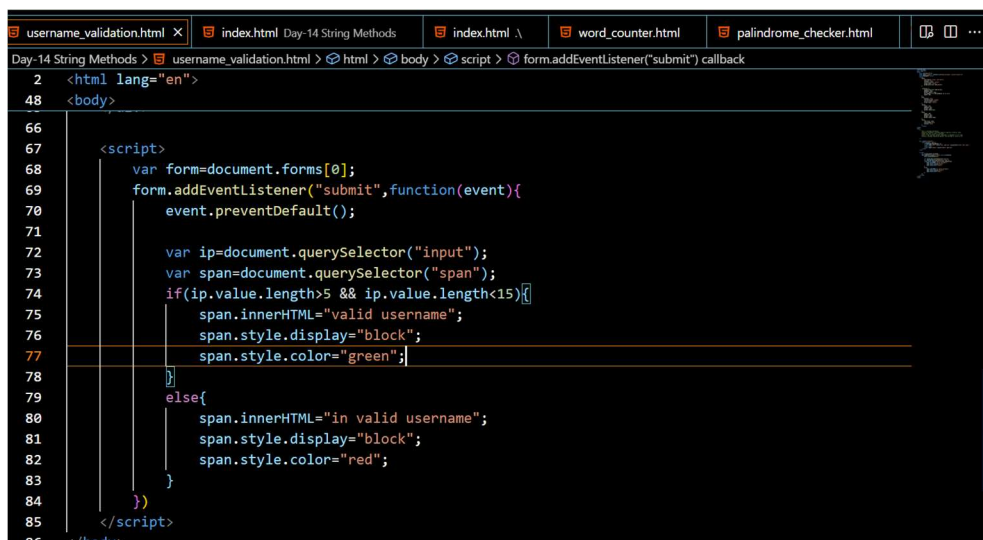
Task 1: Username Validation

Scenario: Validate a username based on specific criteria. Task:

Prompt the user to enter a username.

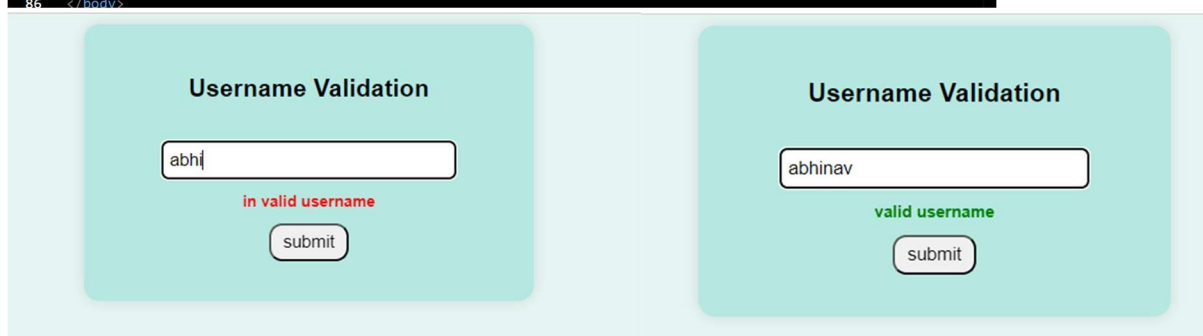
Check if the username contains characters in between 5 to 15 long.

Display a message indicating whether the username is valid or not.



The screenshot shows a web browser with multiple tabs. The active tab is 'username_validation.html'. The browser's developer tools are open, showing the 'script' tab. The code in the script tag is as follows:

```
2 <html lang="en">
48 <body>
66
67 <script>
68   var form=document.forms[0];
69   form.addEventListener("submit",function(event){
70     event.preventDefault();
71
72     var ip=document.querySelector("input");
73     var span=document.querySelector("span");
74     if(ip.value.length>5 && ip.value.length<15){
75       span.innerHTML="valid username";
76       span.style.display="block";
77       span.style.color="green";
78     }
79     else{
80       span.innerHTML="in valid username";
81       span.style.display="block";
82       span.style.color="red";
83     }
84   })
85 </script>
86 </body>
```



The image shows two screenshots of a username validation form. The form has a title 'Username Validation', an input field, a 'submit' button, and a feedback message.

Left Screenshot: The input field contains 'abhi'. The feedback message is 'in valid username' in red text.

Right Screenshot: The input field contains 'abhinav'. The feedback message is 'valid username' in green text.

Task 2: Email Formatter

Scenario: Format an email address. Task:

Prompt the user to enter their first and last name.

Convert the names to lowercase and concatenate them with a dot in between.

concat "@gmail.com" to the result and display the formatted email address.

inp: jenny and joy

out: jenny.joy@gmail.com

```
username_validation.html | email_formatter.html M X | index.html Day-14 String Methods | index.html \ | word_counter.html
Day-14 String Methods > email_formatter.html > html > body > div.container > form#fm > input#user.text
2  <html lang="en">
48 <body>
59   <div class="container">
60     <form action="" id="fm">
61       <h3>Email Formater</h3>
62       <input type="text" class="text" id="user" placeholder="Enter First name" >
63       <input type="text" class="text" id="user" placeholder="Enter Last name" >
64       <span></span>
65       <input type="submit" value="submit" id="sub">
66       <input type="text" class="text" id="user" placeholder="your genrated email will display he
67     </form>
68   </div>
69   <script>
70     var form=document.forms[0];
71     form.addEventListener("submit",function(event){
72       event.preventDefault();
73
74       var ip1=document.querySelectorAll("input")[0];
75       var ip2=document.querySelectorAll("input")[1];
76
77       res=`${ip1.value}.${ip2.value}@gmail.com`;
78       var ip3=document.querySelectorAll("input")[3];
79       ip3.setAttribute("value",res);
80     })
81   </script>
```

Email Formater

Task 3: Word Counter

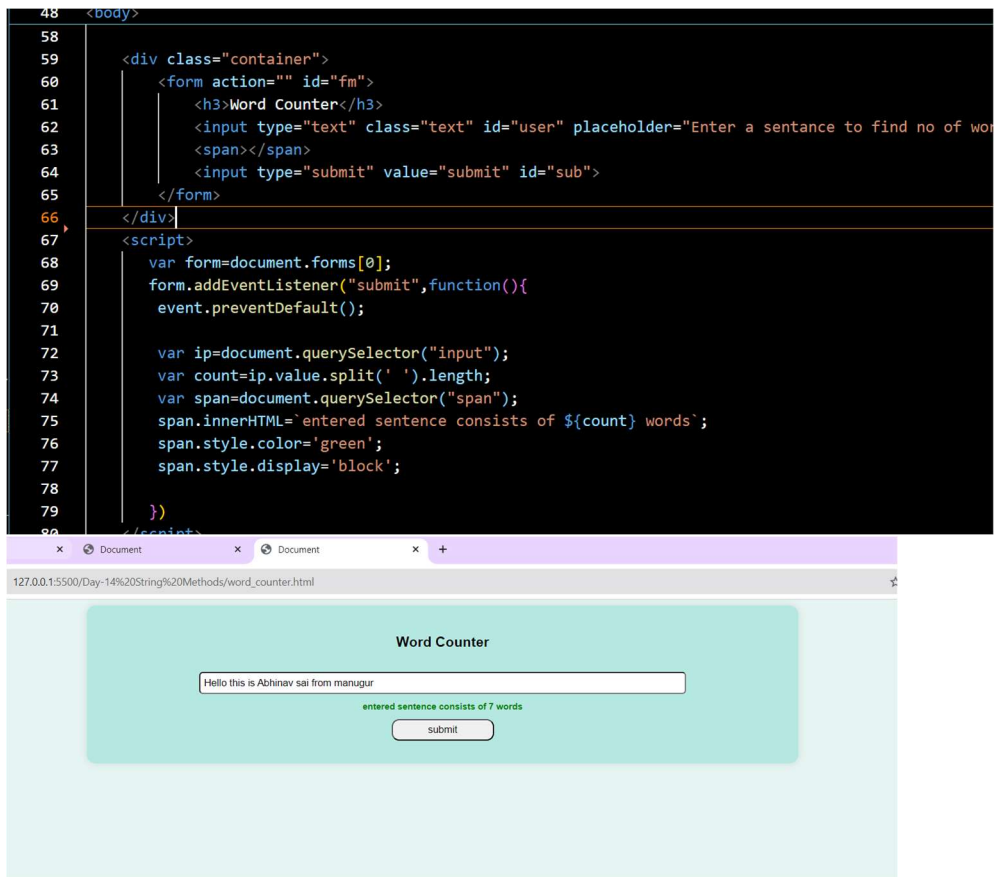
Scenario: Count the number of words in a sentence. Task:

Prompt the user to enter a sentence.

Split the sentence into words and count them.

Display the word count.

Hint: use split and length method



Task 4: Palindrome Checker

Scenario: Check if a given string is a palindrome. Task:

Prompt the user to enter a string.

Check if the string reads the same forwards and backwards.

Display a message indicating whether the string is a palindrome

Hints : use split,join, reverse method in arrays

inp:john

out: not a palandrome

inp:dad

out:it is a palandrome

```
<script>
  var form=document.forms[0];
  form.addEventListener("submit",function(){
    event.preventDefault();

    var ip=document.querySelector("input");
    var rev=ip.value.split('').reverse().join('');
    var span=document.querySelector("span");

    if(ip.value == rev){
      span.innerHTML="given word is palindrome";
      span.style.color='green';
      span.style.display='block';
    }
    else{
      span.innerHTML="given word is not a palindrome";
      span.style.color='red';
      span.style.display='block';
    }
  })
</script>
```

Palindrome Checker

given word is not a palindrome

Palindrome Checker

given word is palindrome