

Tasks 3

Create a folder called tasks3 and inside it implement the following programs:

Task 1

In a file called indoor.html, implement a program in JavaScript that prompts the user for input and then outputs that same input in lowercase. Punctuation and whitespace should be outputted unchanged.

Demo 1:

This page says

text:

This page says
hello

Demo 2:

This page says

text:

This page says
how are you?

Task 2:

In a file called `slow.html`, implement a program in JavaScript that prompts the user for input and then outputs that same input, replacing each space with ... (i.e., three periods).

Demo 1:

This page says

text:

this week we're learning functions.

OK

Cancel

This page says

this...week...we're...learning...functions.

OK

Demo 2:

This page says

text:

Let's implement a function.

OK

Cancel

This page says

Let's...implement...a...function.

OK

Hint:

String comes with a method called `replaceAll()`. You can read about it on the following link:

https://www.w3schools.com/js/js_string_methods.asp

Task 3:

The area of a circle is pi times the radius squared ($A = \pi r^2$). we have written the program below to calculate it. Well, we've written *most* of it for you. Unfortunately, we didn't have time to implement the function called *calculateArea*, which accepts a number as input, and returns the area of the circle.

In a file named circle.html, first copy the following code and implement the calculateArea function:

```
<script>
  // approximate value of PI
  const PI = 3.14

  let calculateArea = function(r){
    // TODO
  }

  let radius = Number(prompt("radius(cm): "))
  let area = calculateArea(radius)

  alert(`area of the circle is ${area}cm`)

</script>
```

Demo 1:

This page says

radius(cm):

OK Cancel

This page says

area of the circle is 28.26cm

OK

How to submit:

Upload all your files into a GitHub repository and share the link on WhatsApp.